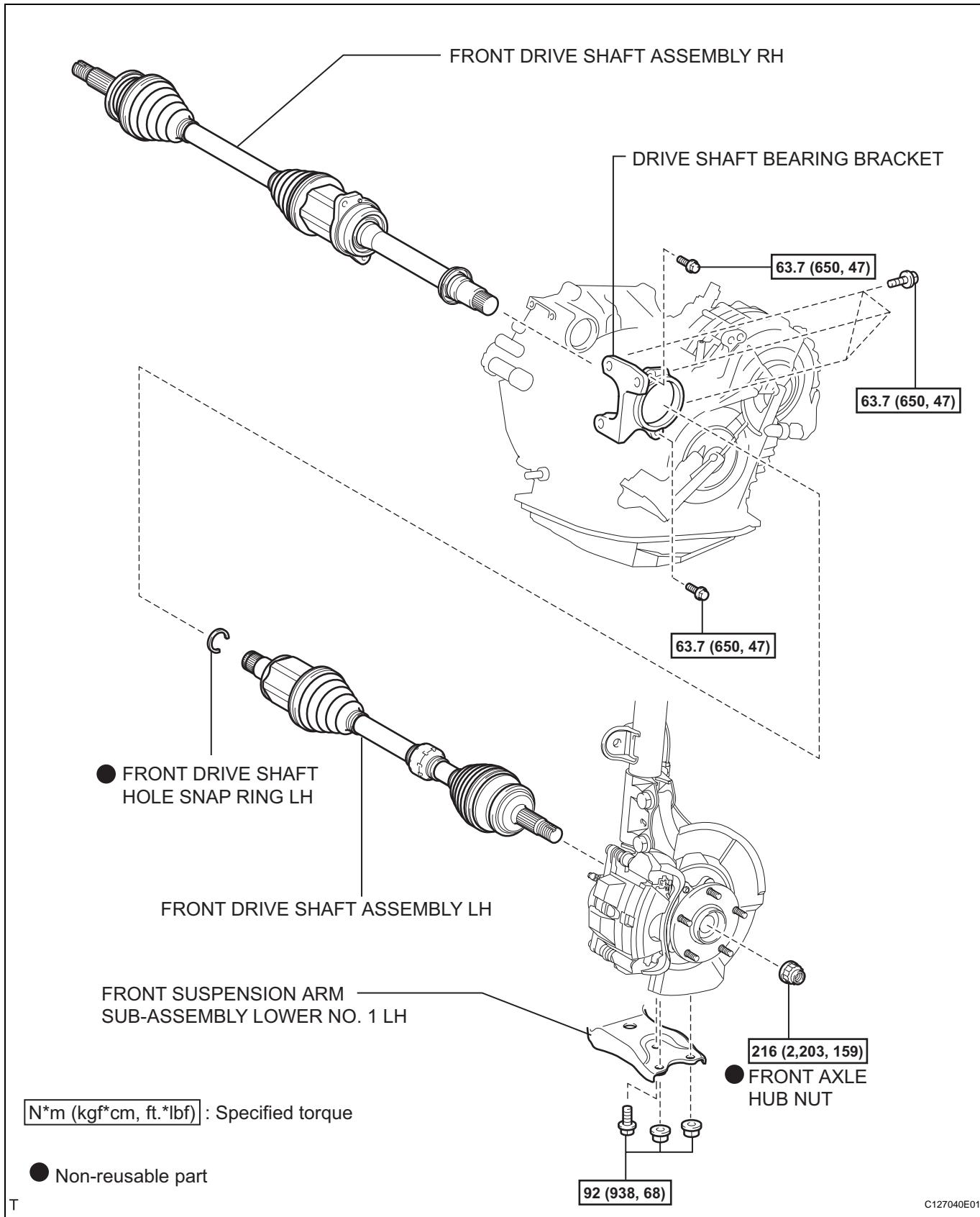
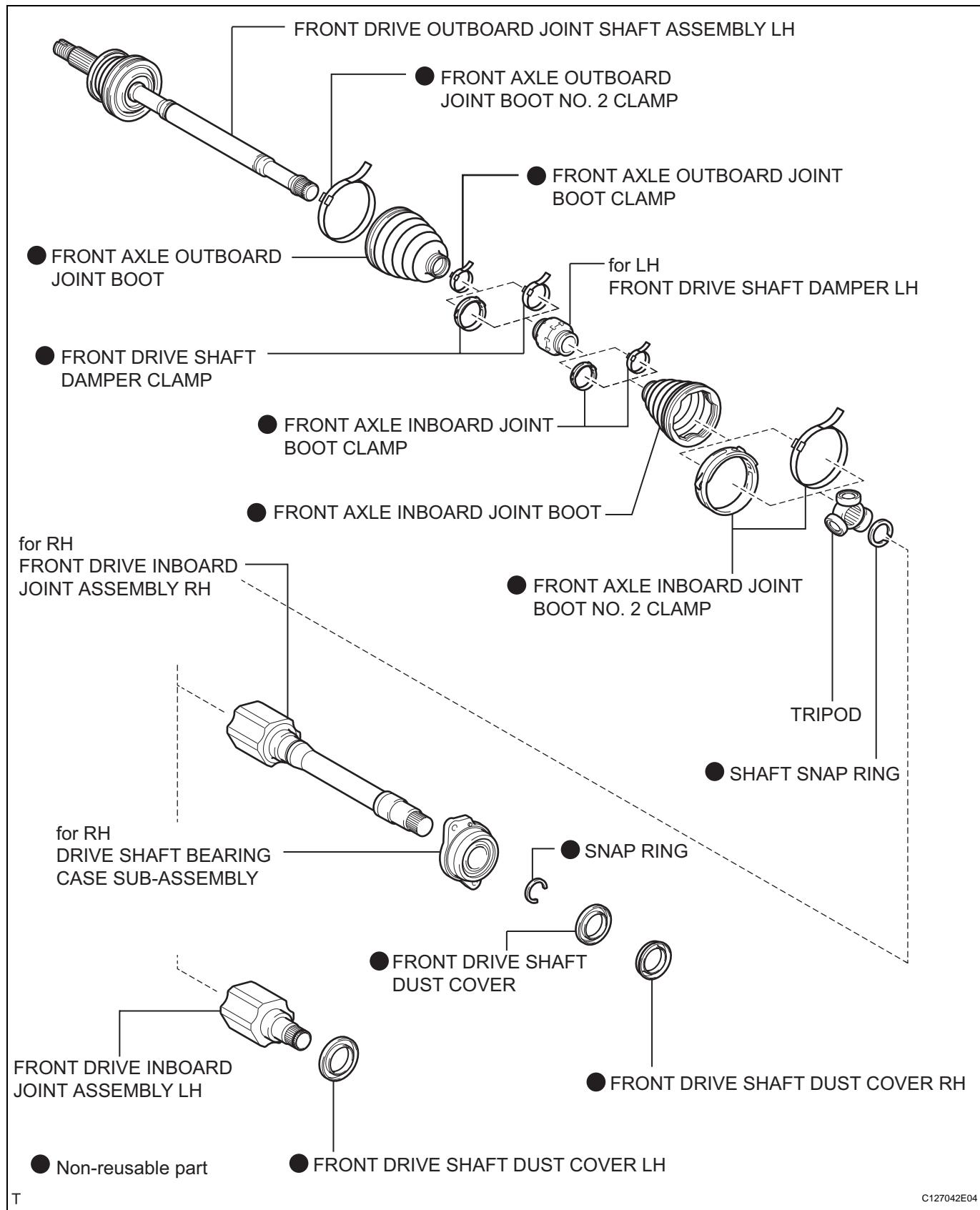


# FRONT DRIVE SHAFT ASSEMBLY (for 2WD)

## COMPONENTS

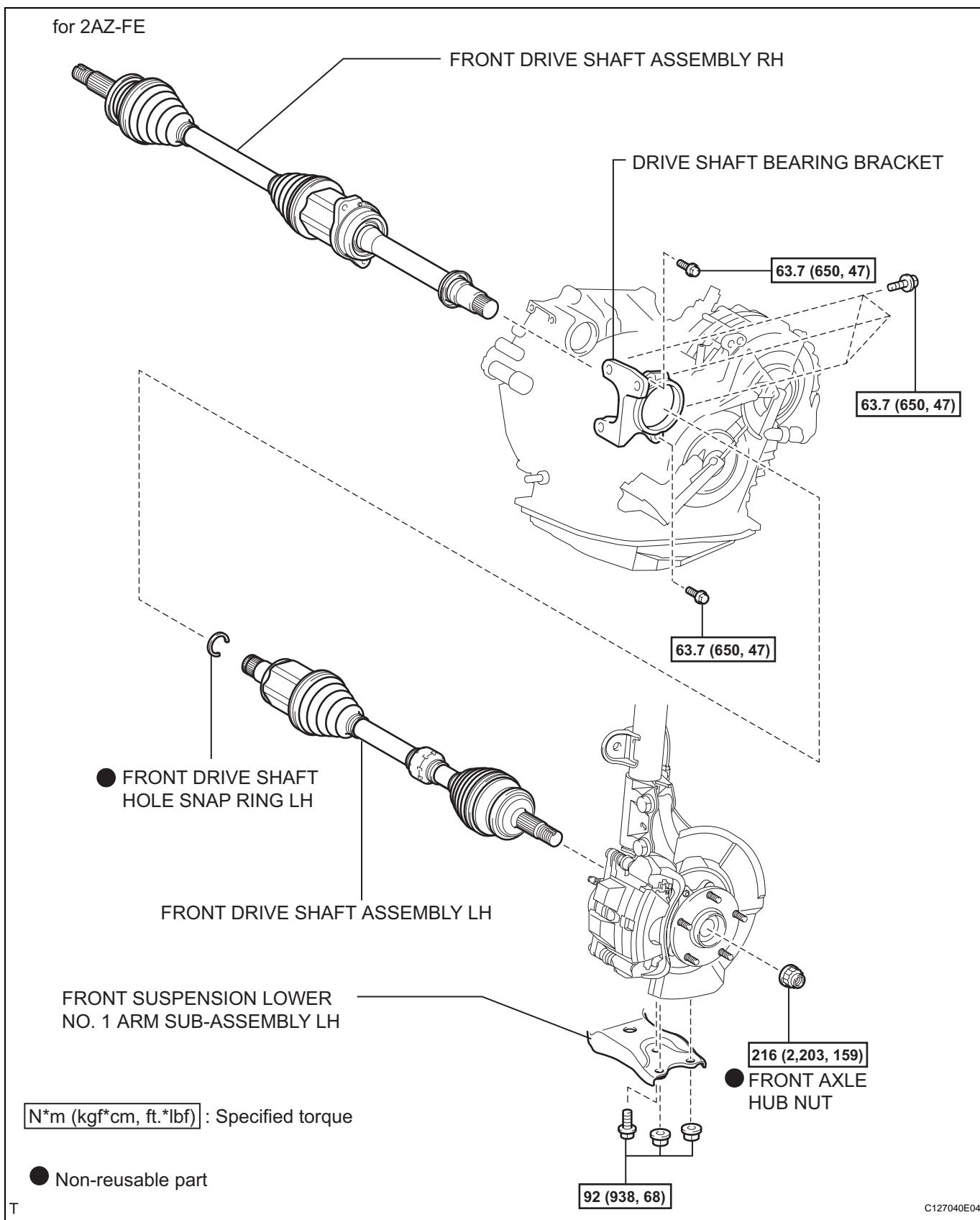
(2005/11-2006/01)



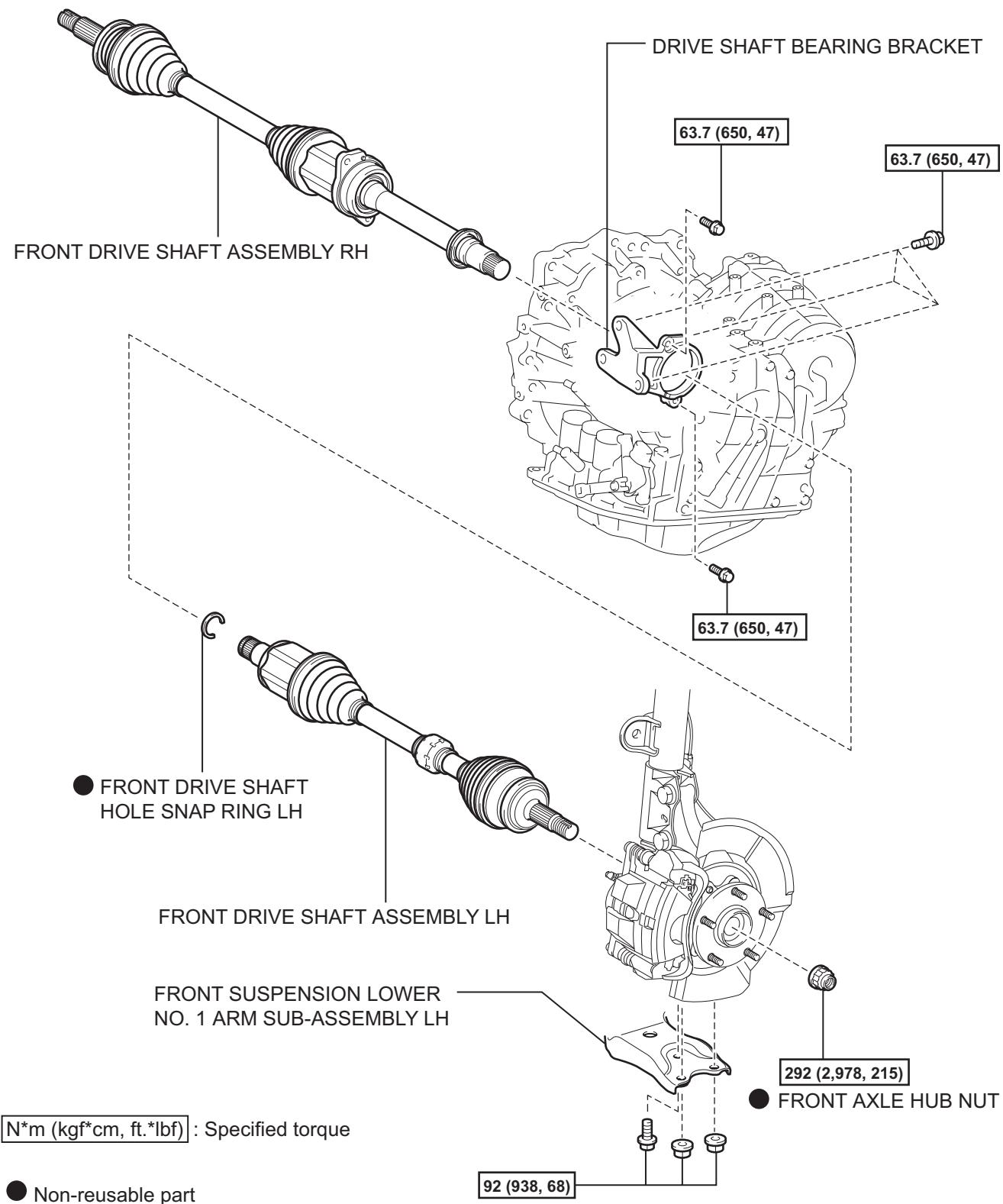


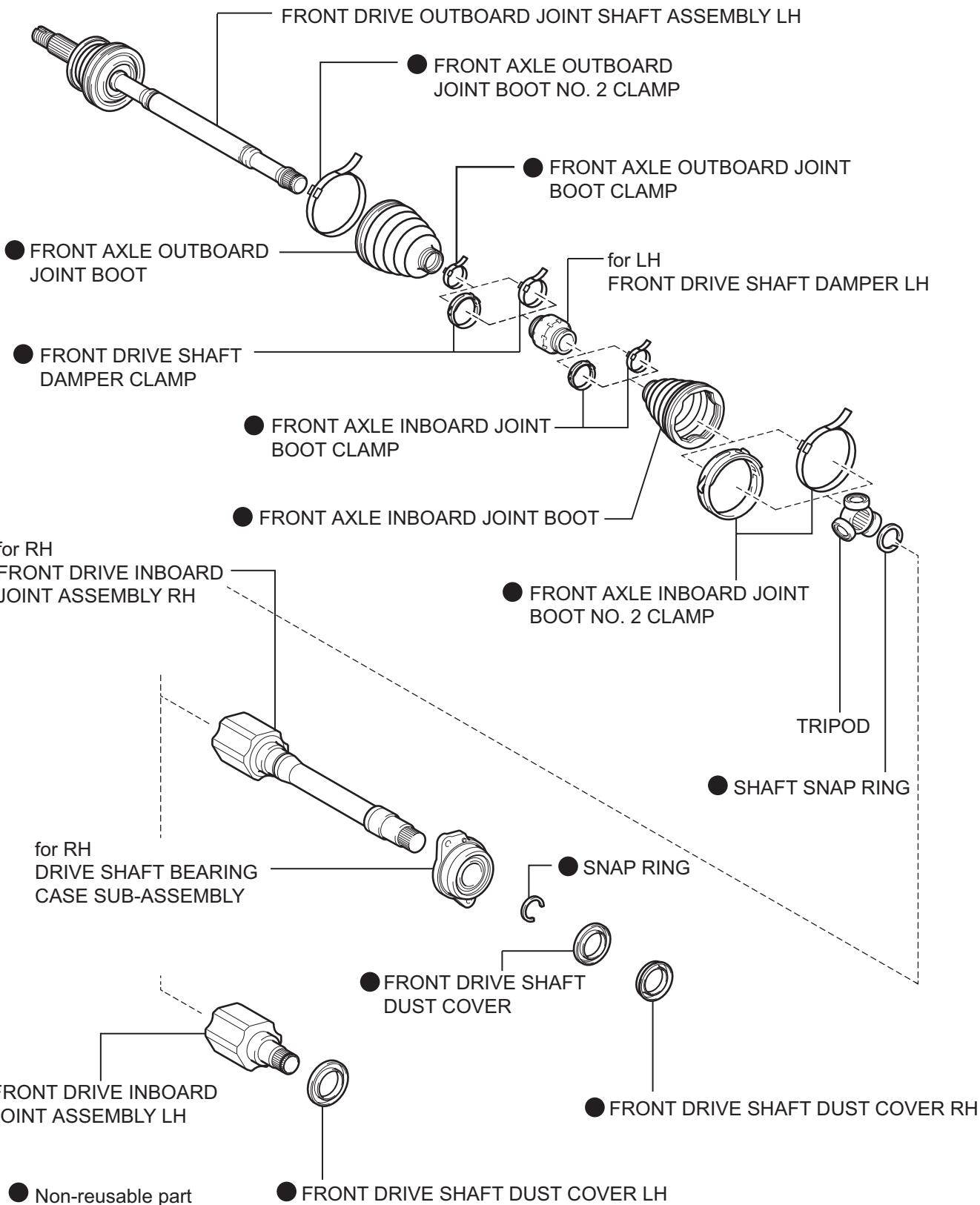
## COMPONENTS

(2006/01- )



for 2GR-FE





## REMOVAL

(2005/11-2006/01)

1. **REMOVE FRONT WHEEL**
2. **DRAIN AUTOMATIC TRANSAXLE FLUID**
  - (a) Drain the automatic transaxle fluid for U140F (see page [AX-147](#)).
  - (b) Drain the automatic transaxle fluid for U241E (see page [AX-146](#)).
3. **REMOVE FRONT AXLE HUB NUT (See page [AH-6](#))**
4. **DISCONNECT FRONT SPEED SENSOR LH**
  - (a) Disconnect the speed sensor (see page [BC-191](#)).
5. **DISCONNECT FRONT SPEED SENSOR RH**

HINT:  
Use the same procedures described for the LH side.
6. **DISCONNECT FRONT DISC BRAKE CYLINDER ASSEMBLY LH (See page [BR-40](#))**
7. **DISCONNECT FRONT DISC BRAKE CALIPER ASSEMBLY RH**

HINT:  
Use the same procedures described for the LH side.
8. **REMOVE FRONT STABILIZER LINK ASSEMBLY LH (See page [SP-30](#))**
9. **REMOVE FRONT STABILIZER LINK ASSEMBLY RH**

HINT:  
Use the same procedures described for the LH side.
10. **DISCONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH (See page [AH-7](#))**
11. **DISCONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY RH**

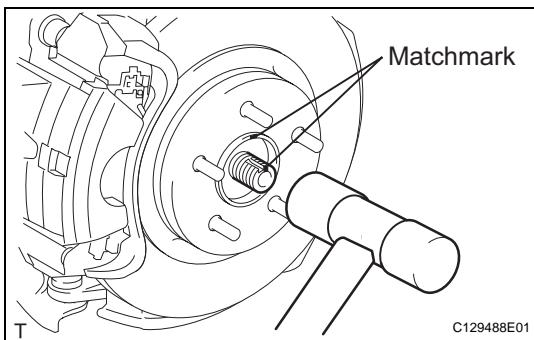
HINT:  
Use the same procedures described for the LH side.
12. **DISCONNECT STEERING KNUCKLE WITH AXLE HUB LH**
  - (a) Put matchmarks on the drive shaft and axle hub.

**NOTICE:**  
**Do not punch the marks.**

  - (b) Using a plastic-faced hammer, disconnect the steering knuckle with axle hub.

**NOTICE:**  
**Be careful not to damage the boot and speed sensor rotor.**  
**Do not excessively push out the drive shaft from the axle assembly.**
13. **DISCONNECT STEERING KNUCKLE WITH AXLE HUB RH**

HINT:  
Use the same procedures described for the LH side.



DS

**14. DISCONNECT TIE ROD END SUB-ASSEMBLY LH**  
 (See page [PS-42](#))

**15. DISCONNECT TIE ROD END SUB-ASSEMBLY RH**  
 HINT:  
 Use the same procedures described for the LH side.

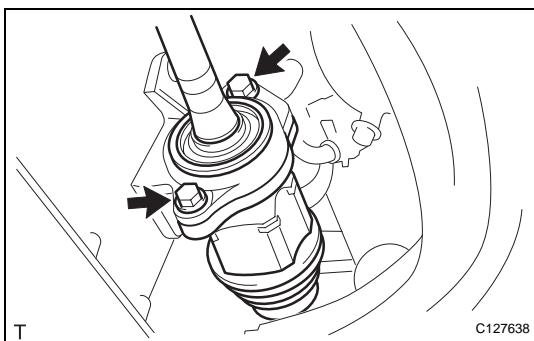
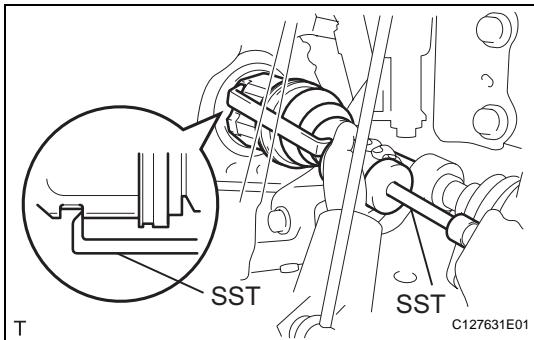
**16. REMOVE FRONT DRIVE SHAFT ASSEMBLY LH**

(a) Using SST, remove the front drive shaft.

**SST 09520-01010, 09520-24010 (09520-32040)**

**NOTICE:**

- Be careful not to damage the transaxle case oil seal, inboard joint boot and drive shaft dust cover.
- Be careful not to drop the drive shaft.



**17. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH**

(a) Remove the 2 bolts and pull out the drive shaft together with the drive shaft bearing case.

(b) Remove the drive shaft from the transaxle.

**NOTICE:**

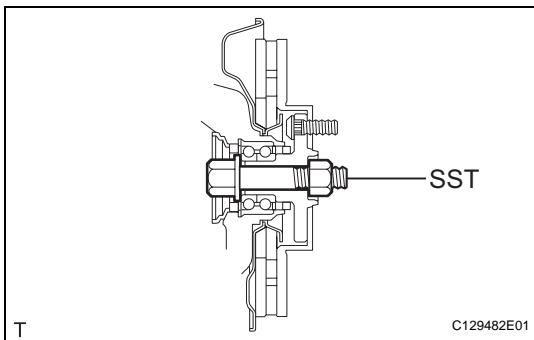
- Be careful not to damage the inboard joint boot and drive shaft dust cover.
- Be careful not to drop the drive shaft.

**18. FIX FRONT AXLE ASSEMBLY**

**NOTICE:**

The hub bearing could be damaged if it is subjected to the vehicle weight, such as when moving the vehicle with the drive shaft removed. Therefore, if it is absolutely necessary to place the vehicle weight on the hub bearing, first support it with SST.

**SST 09608-16042 (09608-02021, 09608-02041)**



## REMOVAL

(2006/01- )

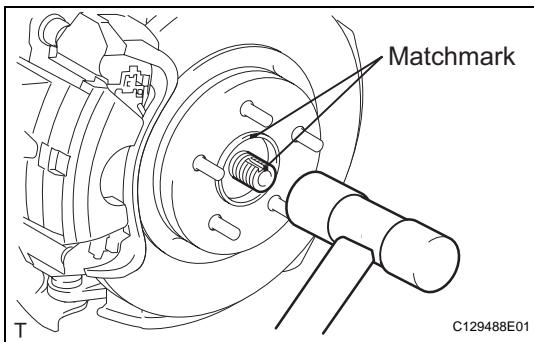
1. **REMOVE FRONT WHEEL**
2. **DRAIN AUTOMATIC TRANSAXLE FLUID**
  - (a) Drain the automatic transaxle fluid for U140F (see page [AX-147](#)).
  - (b) Drain the automatic transaxle fluid for U241E (see page [AX-146](#)).
  - (c) Drain the automatic transaxle fluid for U151E (see page [AX-172](#)).
3. **REMOVE FRONT AXLE HUB NUT (See page [AH-8](#))**
4. **DISCONNECT FRONT SPEED SENSOR LH**
  - (a) Disconnect the speed sensor (see page [BC-191](#)).
5. **REMOVE FRONT SPEED SENSOR RH**

**HINT:**  
Use the same procedures described for the LH side.
6. **DISCONNECT FRONT DISC BRAKE CYLINDER ASSEMBLY LH (See page [BR-40](#))**
7. **DISCONNECT FRONT DISC BRAKE CYLINDER ASSEMBLY RH**

**HINT:**  
Use the same procedures described for the LH side.
8. **REMOVE FRONT STABILIZER LINK ASSEMBLY LH (See page [SP-30](#))**
9. **REMOVE FRONT STABILIZER LINK ASSEMBLY RH**

**HINT:**  
Use the same procedures described for the LH side.
10. **DISCONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY LH (See page [SP-21](#))**
11. **DISCONNECT FRONT SUSPENSION LOWER NO. 1 ARM SUB-ASSEMBLY RH**

**HINT:**  
Use the same procedures described for the LH side.
12. **DISCONNECT STEERING KNUCKLE WITH AXLE HUB LH**
  - (a) Put matchmarks on the drive shaft and axle hub.  
**NOTICE:**  
**Do not punch the marks.**
  - (b) Using a plastic-faced hammer, disconnect the steering knuckle with axle hub.  
**NOTICE:**  
**Be careful not to damage the boot and speed sensor rotor.**  
**Do not excessively push out the drive shaft from the axle assembly.**



DS

**13. DISCONNECT STEERING KNUCKLE WITH AXLE HUB RH**

**HINT:**

Use the same procedures described for the LH side.

**14. DISCONNECT TIE ROD END SUB-ASSEMBLY LH**  
(See page [PS-42](#))

**15. DISCONNECT TIE ROD END SUB-ASSEMBLY RH**

**HINT:**

Use the same procedures described for the LH side.

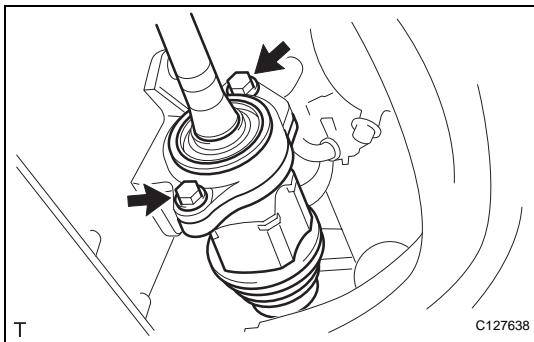
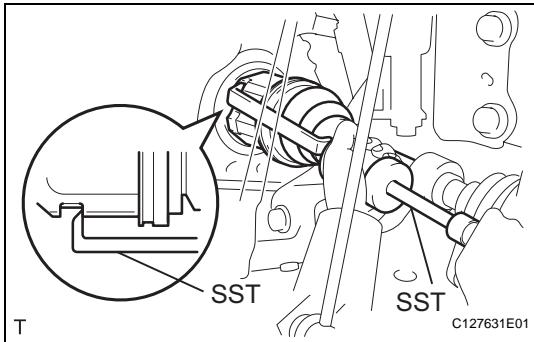
**16. REMOVE FRONT DRIVE SHAFT ASSEMBLY LH**

(a) Using SST, remove the front drive shaft.

**SST 09520-01010, 09520-24010 (09520-32040)**

**NOTICE:**

- Be careful not to damage the transaxle case oil seal, inboard joint boot and drive shaft dust cover.
- Be careful not to drop the drive shaft.



**17. REMOVE FRONT DRIVE SHAFT ASSEMBLY RH**

(a) Remove the 2 bolts and pull out the drive shaft together with the drive shaft bearing case.

(b) Remove the drive shaft from the transaxle.

**NOTICE:**

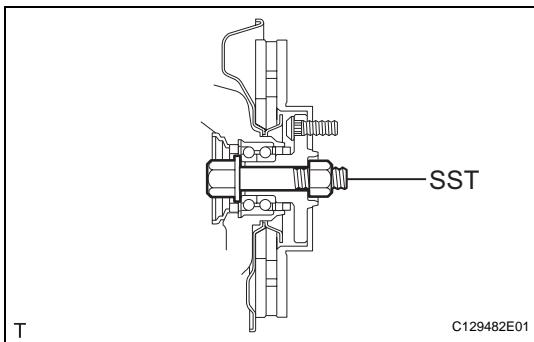
- Be careful not to damage the transaxle case oil seal, inboard joint boot and drive shaft dust cover.
- Be careful not to drop the drive shaft.

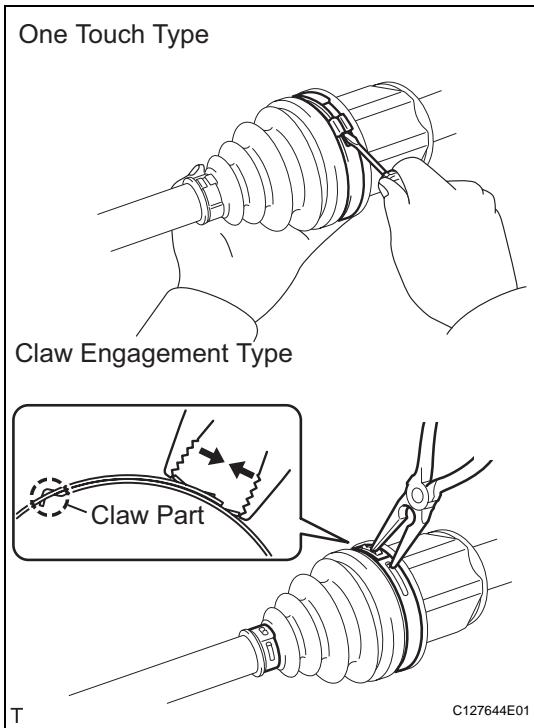
**18. FIX FRONT AXLE ASSEMBLY**

**NOTICE:**

The hub bearing could be damaged if it is subjected to the vehicle weight, such as when moving the vehicle with the drive shaft removed. Therefore, if it is absolutely necessary to place the vehicle weight on the hub bearing, first support it with SST.

**SST 09608-16042 (09608-02021, 09608-02041)**





## DISASSEMBLY

(2005/11-2006/01)

### 1. REMOVE FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP LH

(a) One touch type:

- (1) Using a screwdriver, remove the inboard joint boot clamp, as shown in the illustration.

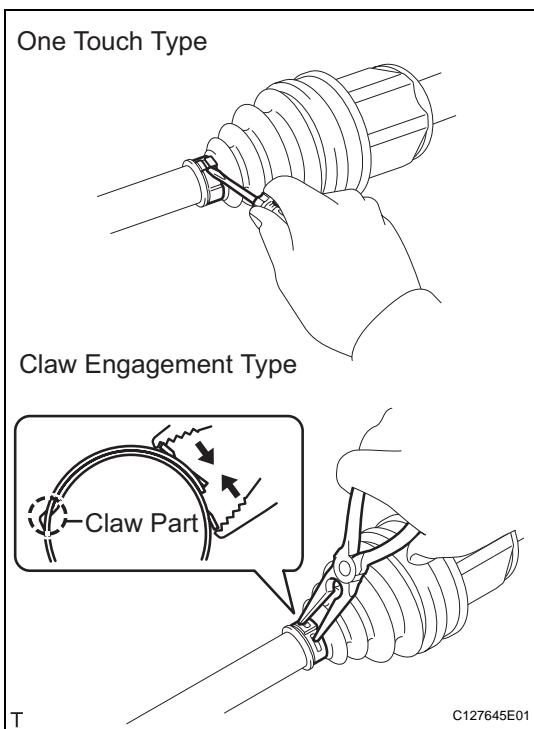
(b) Claw engagement type:

- (1) Using needle-nose pliers, remove the inboard joint boot clamp, as shown in the illustration.

### 2. REMOVE FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP RH

HINT:

Use the same procedures described for the LH side.



### 3. REMOVE FRONT AXLE INBOARD JOINT BOOT CLAMP LH

(a) One touch type:

- (1) Using a screwdriver, remove the inboard joint boot clamp, as shown in the illustration.

(b) Claw engagement type:

- (1) Using needle-nose pliers, remove the inboard joint boot clamp, as shown in the illustration.

### 4. REMOVE FRONT AXLE INBOARD JOINT BOOT CLAMP RH

HINT:

Use the same procedures described for the LH side.

### 5. REMOVE FRONT AXLE INBOARD JOINT BOOT

(a) Remove the boot from the inboard joint.

### 6. REMOVE FRONT DRIVE INBOARD JOINT ASSEMBLY LH

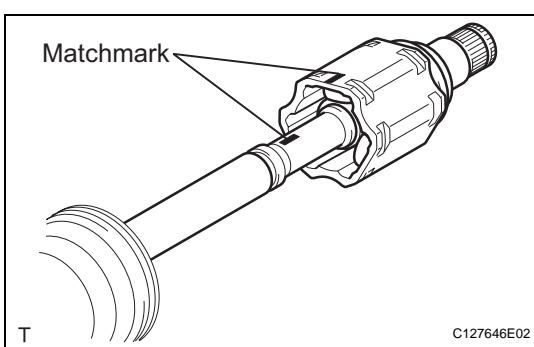
(a) Remove any old grease from the inboard joint.

(b) Put matchmarks on the inboard joint and outboard joint shaft.

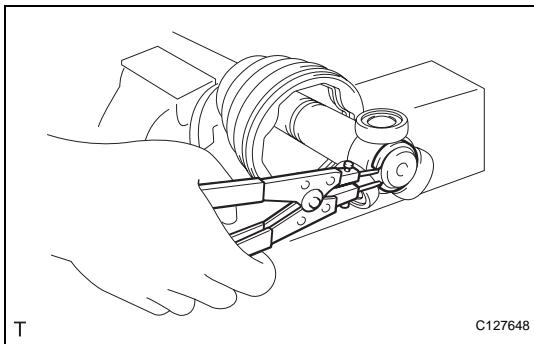
**NOTICE:**

**Do not punch the marks.**

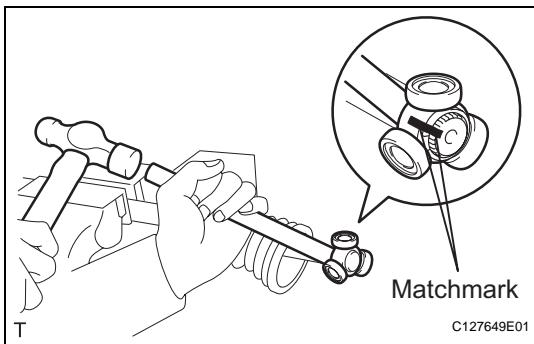
(c) Remove the inboard joint from the outboard joint shaft.



DS



(d) Using a snap ring expander, remove the shaft snap ring.



(e) Put matchmarks on the outboard joint shaft and tripod joint.

**NOTICE:**

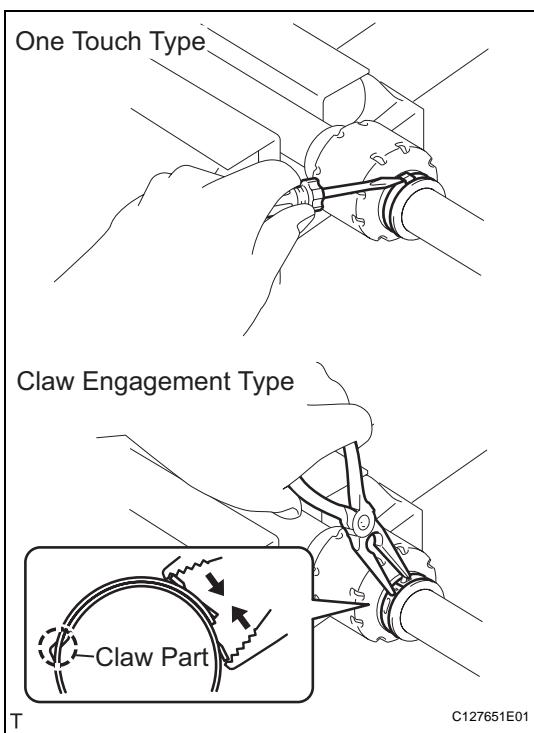
**Do not punch the marks.**

(f) Using a brass bar and hammer, tap out the tripod joint from the outboard joint shaft.

**NOTICE:**

**Do not tap the rollers.**

(g) Remove the inboard joint boot.



**7. REMOVE FRONT DRIVE SHAFT DAMPER CLAMP LH**

(a) One touch type:

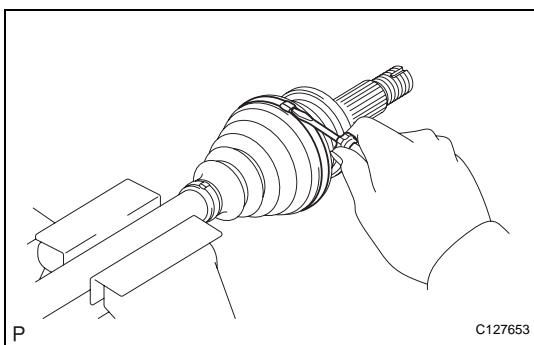
(1) Using a screwdriver, remove the drive shaft damper clamp, as shown in the illustration.

(b) Claw engagement type:

(1) Using needle-nose pliers, remove the drive shaft damper clamp, as shown in the illustration.

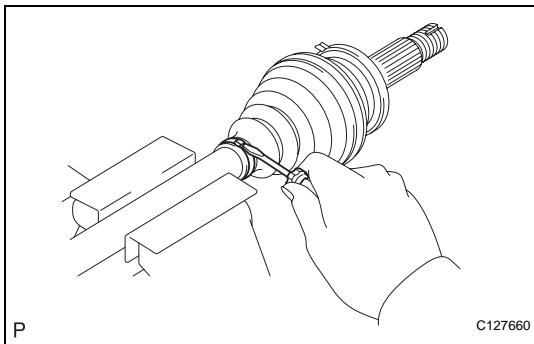
**8. REMOVE FRONT DRIVE SHAFT DAMPER LH**

(a) Remove the front drive shaft damper from the outboard joint shaft.



**9. REMOVE FRONT AXLE OUTBOARD JOINT BOOT NO. 2 CLAMP LH**

(a) Using a screwdriver, remove the outboard joint boot clamp, as shown in the illustration.

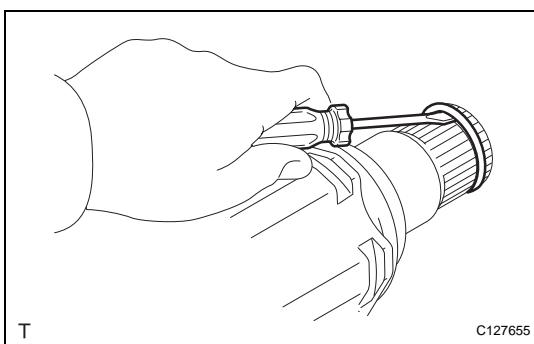


**10. REMOVE FRONT AXLE OUTBOARD JOINT BOOT CLAMP LH**

(a) Using a screwdriver, remove the outboard joint boot clamp, as shown in the illustration.

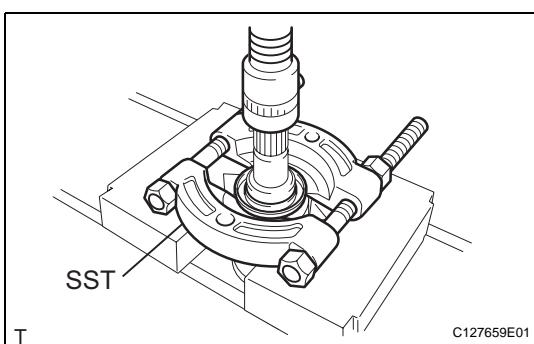
**11. REMOVE FRONT AXLE OUTBOARD JOINT BOOT**

(a) Remove the outboard joint boot from the outboard joint shaft.  
(b) Remove any old grease from the outboard joint.



**12. REMOVE FRONT DRIVE SHAFT HOLE SNAP RING LH**

(a) Using a screwdriver, remove the hole snap ring.



**13. REMOVE FRONT DRIVE SHAFT DUST COVER LH**

(a) Using SST and a press, press out the shaft dust cover.

**SST 09950-00020**

**NOTICE:**

**Be careful not to drop the inboard joint**

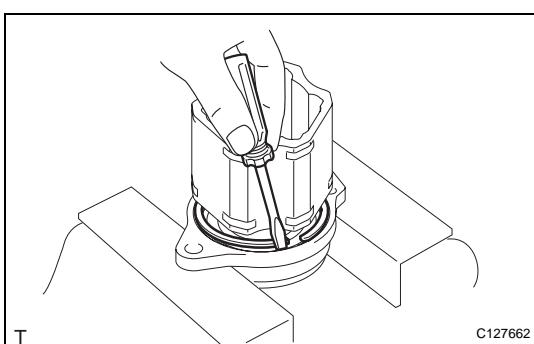
**14. REMOVE FRONT DRIVE SHAFT DUST COVER RH**

**HINT:**

Use the same procedures described for the LH side.

**15. REMOVE DRIVE SHAFT BEARING CASE**

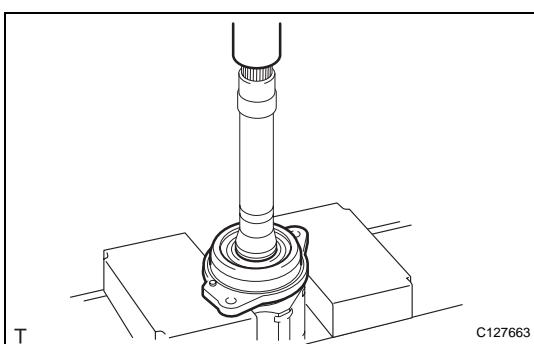
(a) Using a screwdriver, remove the bearing case snap ring.



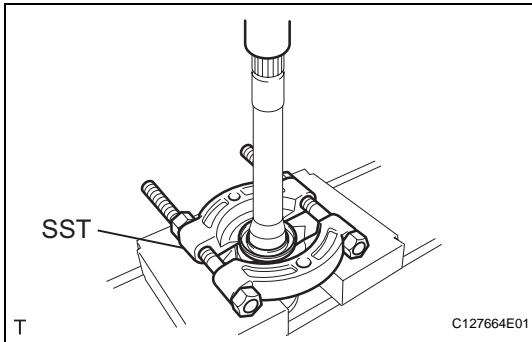
(b) Using a press, press out the drive shaft bearing case.

**HINT:**

**Be careful not to drop the inboard joint**



**DS**



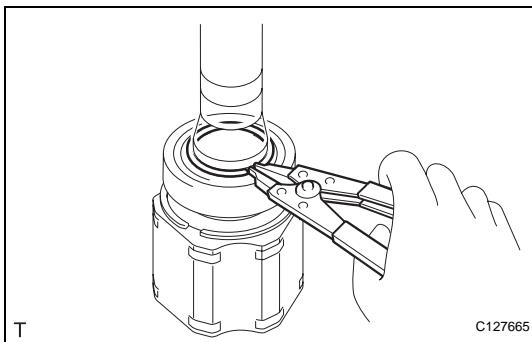
## 16. REMOVE FRONT DRIVE SHAFT DUST COVER

(a) Using SST and a press, press out the drive shaft dust cover.

**SST 09950-00020**

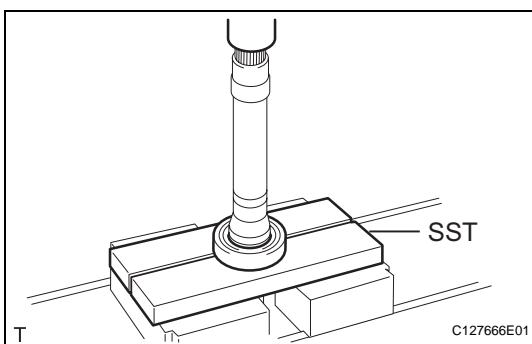
HINT:

Be careful not to drop the inboard joint



## 17. REMOVE FRONT DRIVE SHAFT BEARING

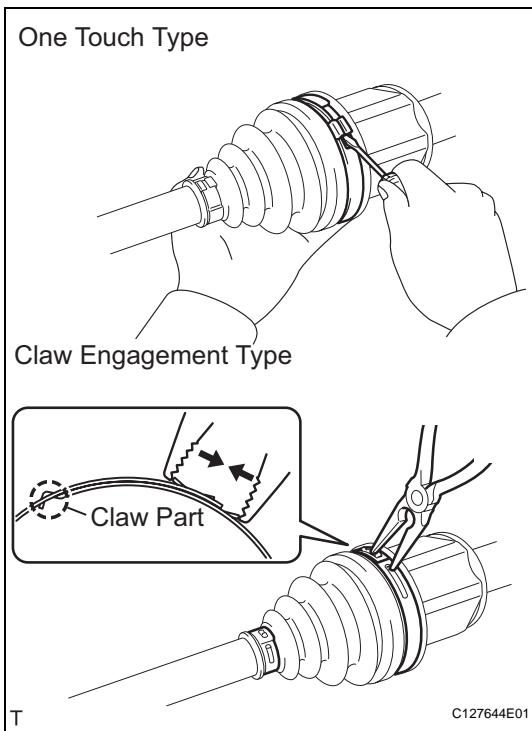
(a) Using a snap ring expander, remove the snap ring.



(b) Using SST and a press, press out the drive shaft bearing.

**SST 09527-10011**

(c) Remove the snap ring.



## DISASSEMBLY

(2006/01- )

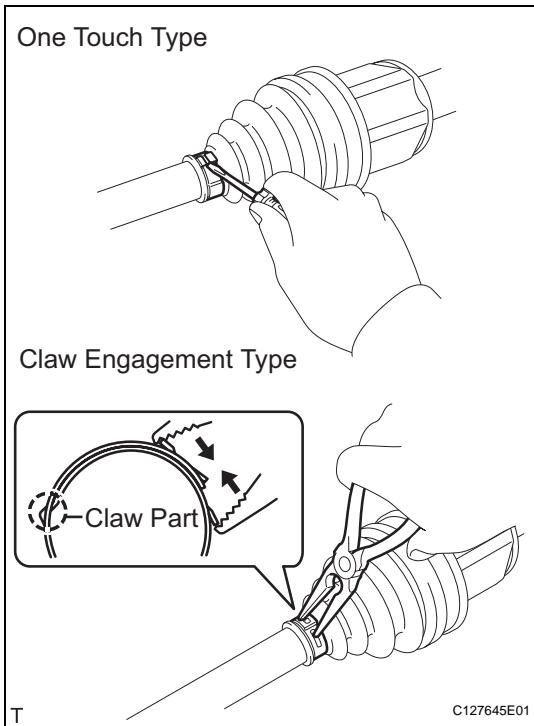
### 1. REMOVE FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP

(a) One touch type:

Using a screwdriver, remove the inboard joint boot clamp, as shown in the illustration.

(b) Claw engagement type:

Using needle-nose pliers, remove the inboard joint boot clamp, as shown in the illustration.

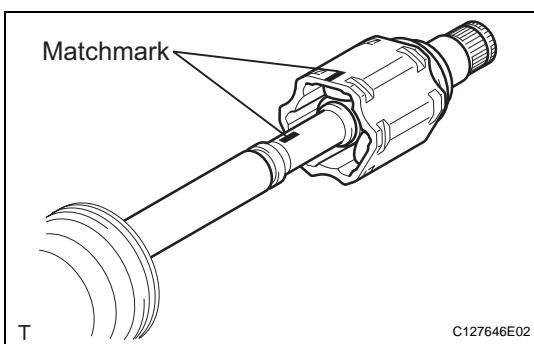


## 2. REMOVE FRONT AXLE INBOARD JOINT BOOT CLAMP

- (a) One touch type:  
Using a screwdriver, remove the inboard joint boot clamp, as shown in the illustration.
- (b) Claw engagement type:  
Using needle-nose pliers, remove the inboard joint boot clamp, as shown in the illustration.

## 3. REMOVE FRONT AXLE INBOARD JOINT BOOT

- (a) Remove the boot from the inboard joint.



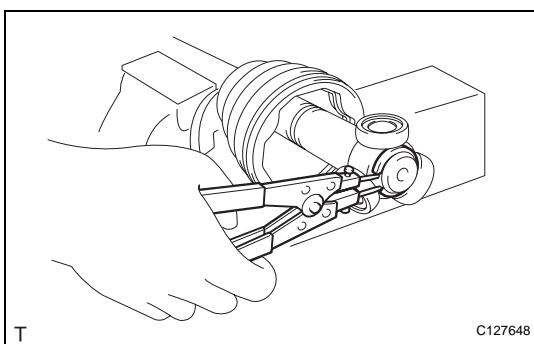
## 4. REMOVE FRONT DRIVE INBOARD JOINT ASSEMBLY LH

- (a) Remove any old grease from the inboard joint.
- (b) Put matchmarks on the inboard joint and outboard joint shaft.

**NOTICE:**  
**Do not punch the marks.**

- (c) Remove the inboard joint from the outboard joint shaft.

- (d) Using a snap ring expander, remove the shaft snap ring.



- (e) Put matchmarks on the outboard joint shaft and tripod joint.

**NOTICE:**

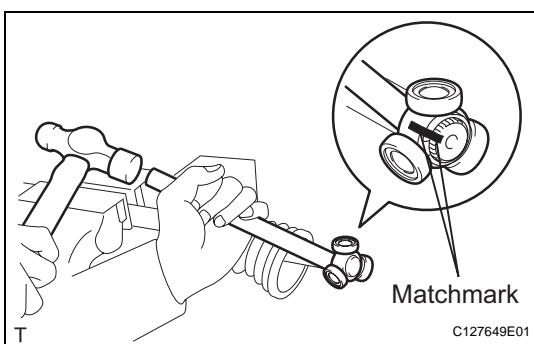
**Do not punch the marks.**

- (f) Using a brass bar and hammer, tap out the tripod joint from the outboard joint shaft.

**NOTICE:**

**Do not tap the rollers.**

- (g) Remove the inboard joint boot.



DS

**5. REMOVE FRONT DRIVE INBOARD JOINT ASSEMBLY RH**

HINT:

Use the same procedures described for the LH side.

**6. REMOVE FRONT DRIVE SHAFT DAMPER CLAMP LH**

(a) One touch type:

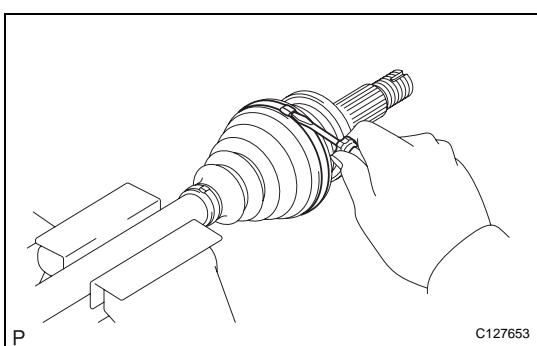
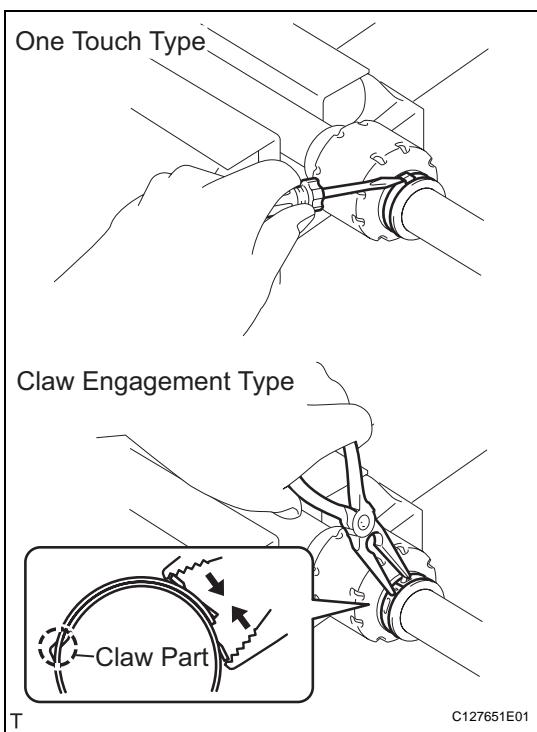
Using a screwdriver, remove the drive shaft damper clamp, as shown in the illustration.

(b) Claw engagement type:

Using needle-nose pliers, remove the drive shaft damper clamp, as shown in the illustration.

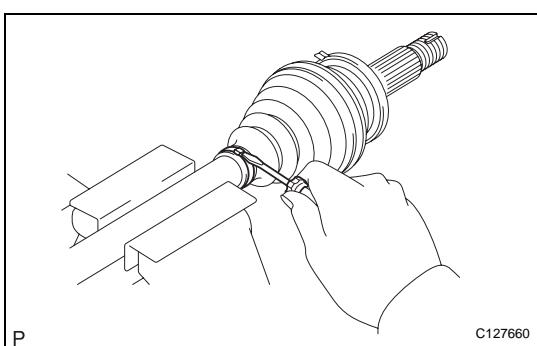
**7. REMOVE FRONT DRIVE SHAFT DAMPER LH**

(a) Remove the front drive shaft damper from the outboard joint shaft.



**8. REMOVE FRONT AXLE OUTBOARD JOINT BOOT NO. 2 CLAMP**

(a) Using a screwdriver, remove the outboard joint boot clamp, as shown in the illustration.



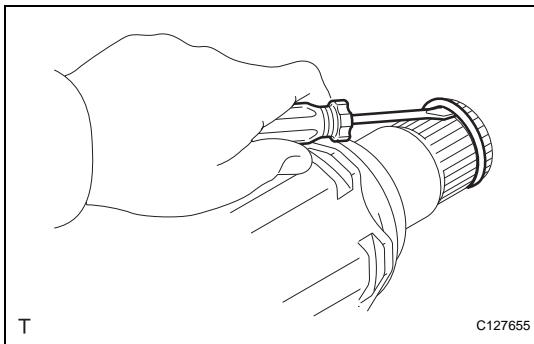
**9. REMOVE FRONT AXLE OUTBOARD JOINT BOOT CLAMP**

(a) Using a screwdriver, remove the outboard joint boot clamp, as shown in the illustration.

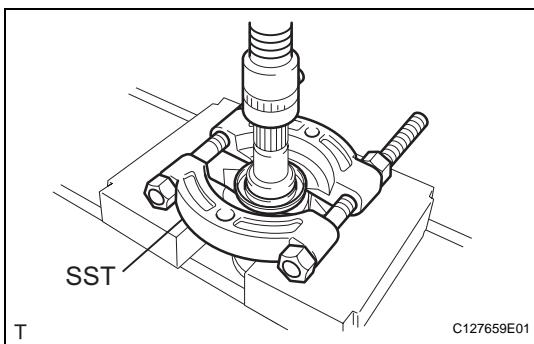
**10. REMOVE FRONT AXLE OUTBOARD JOINT BOOT**

(a) Remove the outboard joint boot from the outboard joint shaft.

(b) Remove any old grease from the outboard joint.

**11. REMOVE FRONT DRIVE SHAFT HOLE SNAP RING LH**

(a) Using a screwdriver, remove the hole snap ring.

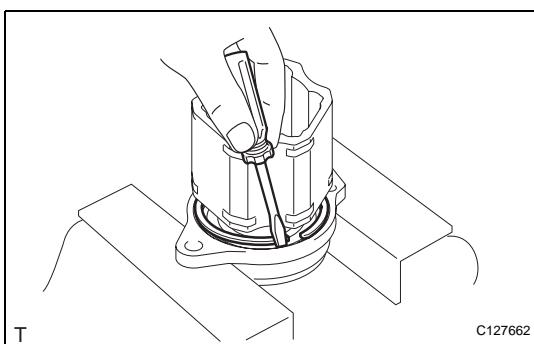
**12. REMOVE FRONT DRIVE SHAFT DUST COVER LH**

(a) Using SST and a press, press out the shaft dust cover.

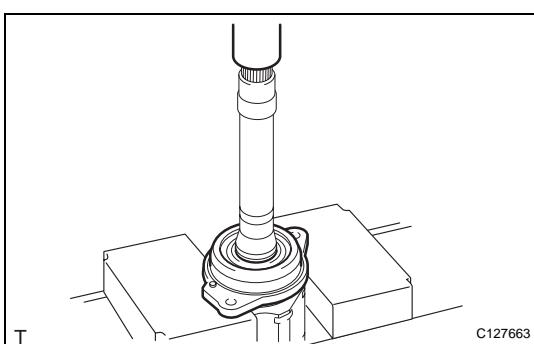
**SST 09950-00020**

**NOTICE:**

Be careful not to drop the inboard joint.

**14. REMOVE DRIVE SHAFT BEARING CASE (for RH)**

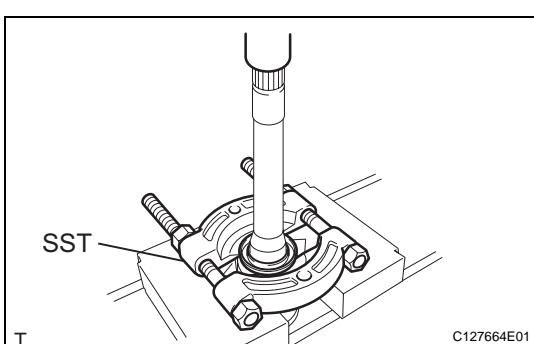
(a) Using a screwdriver, remove the bearing case snap ring.



(b) Using a press, press out the drive shaft bearing case.

**HINT:**

Be careful not to drop the inboard joint.

**15. REMOVE FRONT DRIVE SHAFT DUST COVER (for RH)**

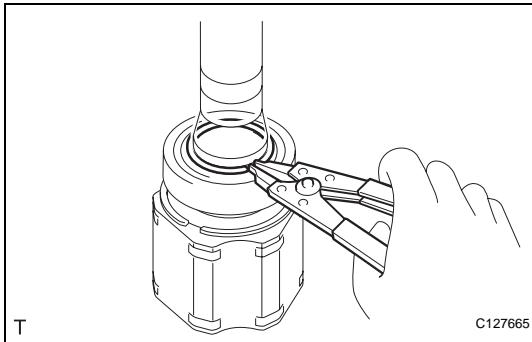
(a) Using SST and a press, press out the drive shaft dust cover.

**SST 09950-00020**

**NOTICE:**

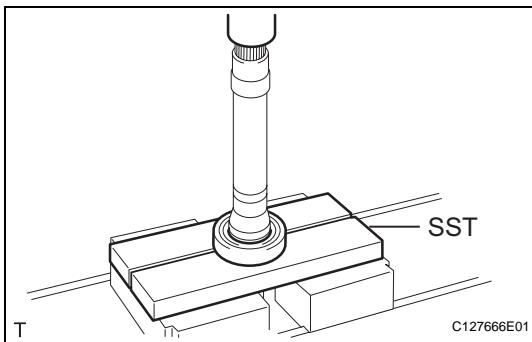
Be careful not to drop the inboard joint.

**DS**



## 16. REMOVE FRONT DRIVE SHAFT BEARING

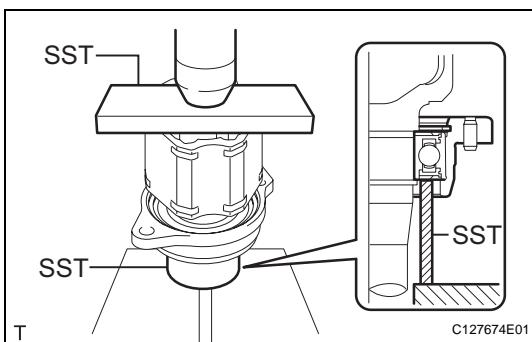
(a) Using a snap ring expander, remove the snap ring.



(b) Using SST and a press, press out the drive shaft bearing.

**SST 09527-10011**

(c) Remove the bearing case snap ring.



## REASSEMBLY

(2005/11-2006/01)

### 1. INSTALL DRIVE SHAFT BEARING CASE SUB-ASSEMBLY

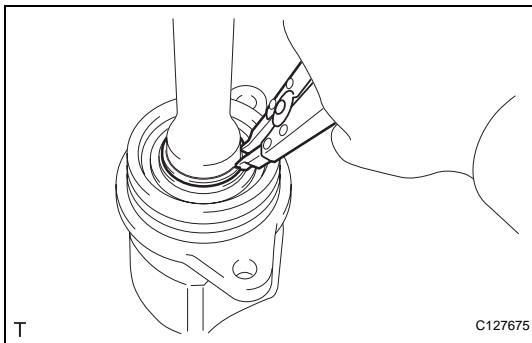
(a) Using SST and a press, press in the drive shaft bearing case to the inboard joint RH.

**SST 09527-10011, 09710-04081**

**NOTICE:**

The bearing should be installed completely.

(b) Using a snap ring expander, install a new drive shaft hole snap ring.



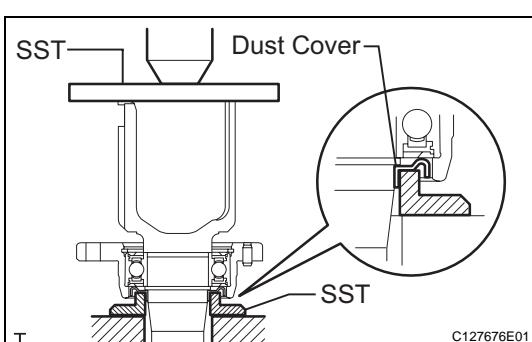
### 2. INSTALL FRONT DRIVE SHAFT DUST COVER

(a) Using SST and a press, press in a new drive shaft dust cover.

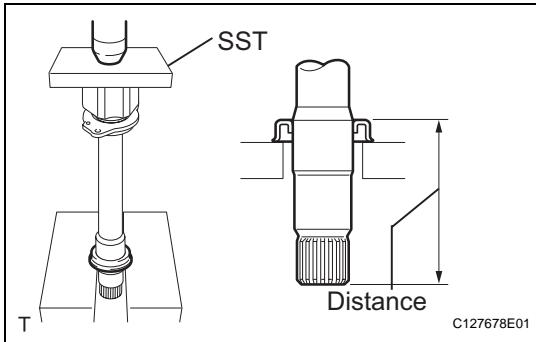
**SST 09726-40010, 09527-10011**

**NOTICE:**

Be careful not to damage the dust cover.



DS



### 3. INSTALL FRONT DRIVE SHAFT DUST COVER RH

(a) Using SST and a press, press in a new drive shaft dust cover until the distance from the tip of the center drive shaft to the drive shaft dust cover reaches the specification, as shown in the illustration.

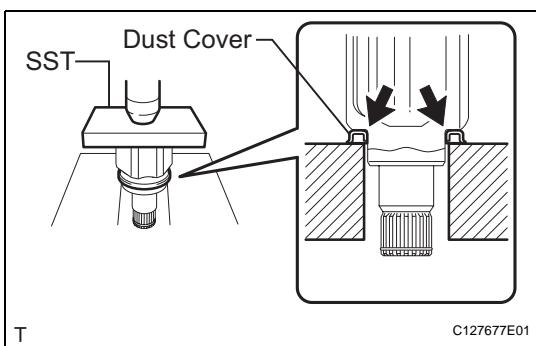
**SST 09527-10011**

**Standard distance:**

91.0 to 92.0 mm (3.583 to 3.622 in.)

**NOTICE:**

- The dust cover should be installed completely.
- Be careful not to damage the dust cover.



### 4. INSTALL FRONT DRIVE SHAFT DUST COVER LH

(a) Using SST and a press, press in a new drive shaft dust cover.

**SST 09527-10011**

**NOTICE:**

- The dust cover should be installed completely.
- Be careful not to damage the dust cover.

### 5. INSTALL FRONT DRIVE SHAFT LH HOLE SNAP RING

(a) Install a new hole snap ring.

### 6. INSTALL FRONT AXLE OUTBOARD JOINT BOOT

**HINT:**

Before installing the boots, wrap the spline of the drive shaft with vinyl tape to prevent the boots from being damaged.

(a) Install new parts to the outboard joint shaft in the following order.

- (1) No. 2 outboard joint boot clamp
- (2) Outboard joint boot
- (3) Outboard joint boot clamp

(b) Pack the outboard joint shaft and boot with grease from the boot kit.

**Standard grease capacity:**

190 to 200 g (6.7 to 7.1 oz.)

### 7. INSTALL FRONT AXLE OUTBOARD JOINT BOOT NO. 2 CLAMP LH

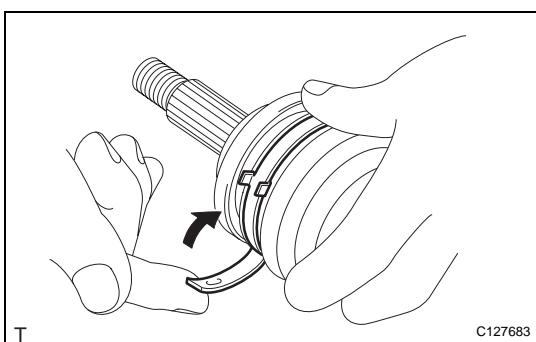
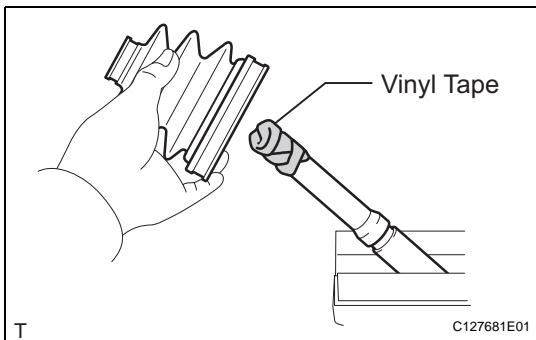
**CAUTION:**

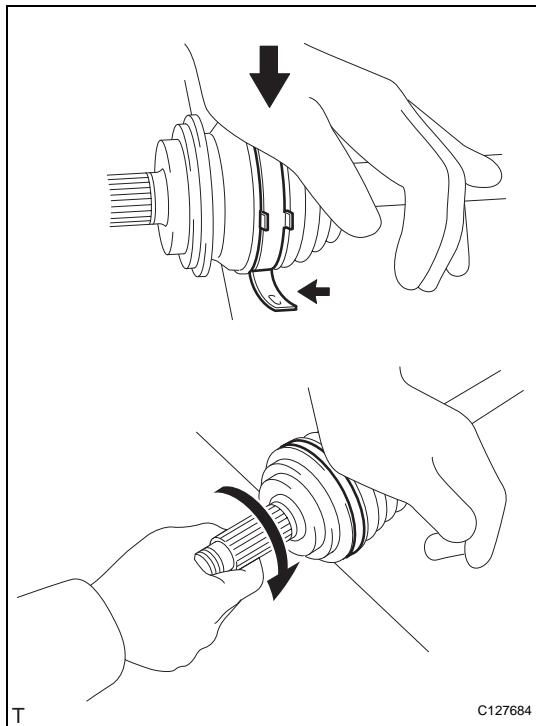
Wear protective gloves while performing the operation and be careful to avoid cutting your hands or other body parts.

(a) Install a new boot clamp to the outboard joint boot and temporarily bend the lever.

**NOTICE:**

- When temporarily bending the lever, make sure not to deform the band and lever.
- Set the clamp correctly in the guide groove and align it with the interior of the vehicle as much as possible.

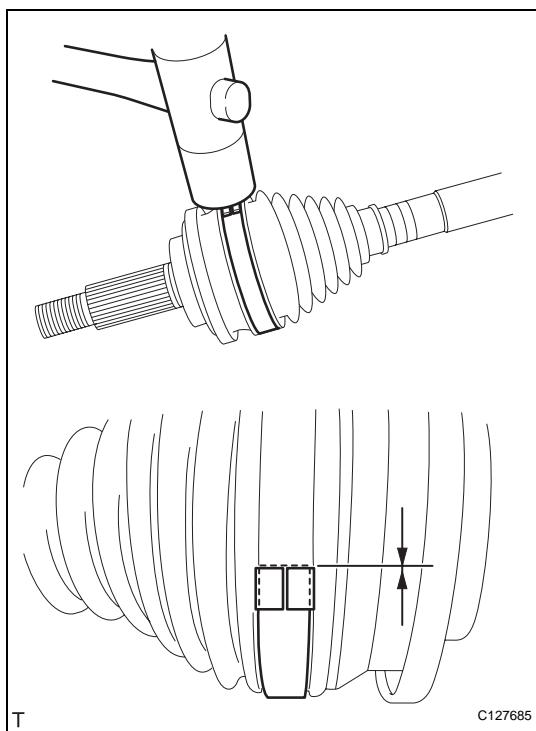




(b) With the joint on the working surface, use your body weight to press down on the joint with one hand. Then, roll the joint forward, as shown in the illustration, and press the lever in until a "click" sound is heard.

**NOTICE:**

- Do not damage the deflector.
- Make sure the joint is in full contact with the joint surface at all times.



(c) Using a plastic-faced hammer, fix the buckle into place by tapping it. At the same time, use the plastic-faced hammer to adjust the lift of the lever so that the gaps between the buckle flange and lever end flange become even.

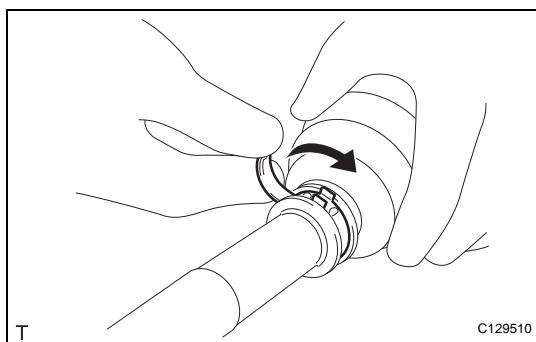
**NOTICE:**

Do not damage the boot.

**8. INSTALL FRONT AXLE OUTBOARD JOINT BOOT NO. 2 CLAMP RH**

**HINT:**

Use the same procedures described for the LH side.



**9. INSTALL FRONT AXLE OUTBOARD JOINT BOOT CLAMP LH**

**CAUTION:**

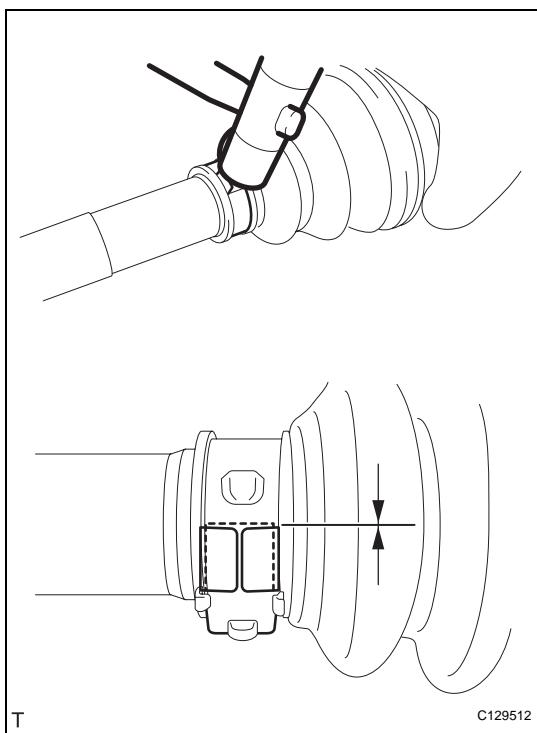
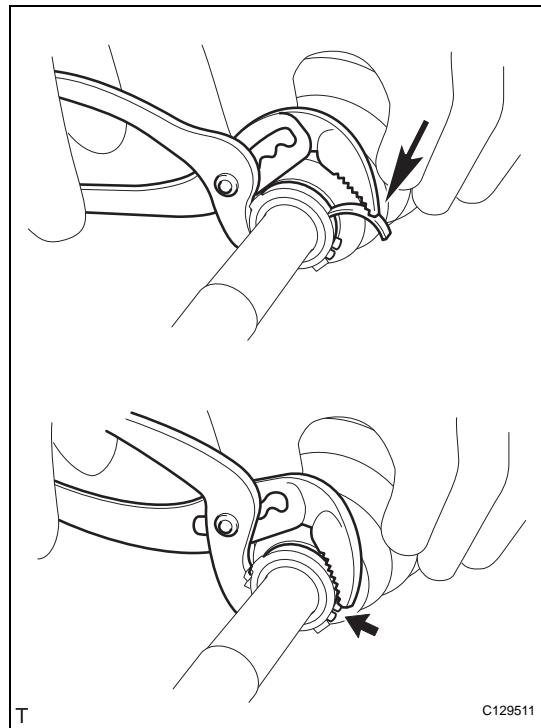
Wear protective gloves while performing the operation and be careful to avoid cutting your hands or other body parts.

(a) Install a new boot clamp to the outboard joint boot and temporarily bend the lever.

**NOTICE:**

**When temporarily bending the lever, make sure not to deform the band and lever.**

(b) Using water pump pliers, temporarily lock the boot clamp by clamping it down until a "click" sound is heard.



(c) Using a plastic-faced hammer, fix the buckle into place by tapping it. At the same time, use the plastic-faced hammer to adjust the lift of the lever so that the gaps between the buckle flange and lever end flange become even.

**NOTICE:**

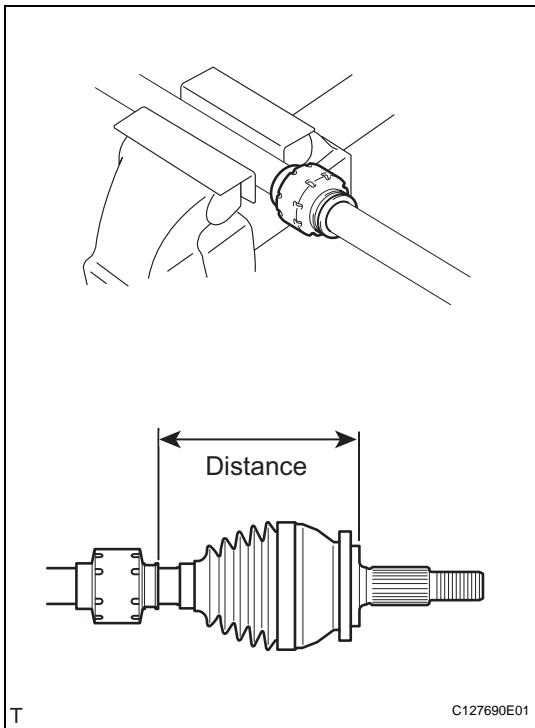
**Do not strike the drive shaft forcefully with the plastic-faced hammer.**

**10. INSTALL FRONT AXLE OUTBOARD JOINT BOOT RH CLAMP**

**HINT:**

Use the same procedures described for the LH side.

**DS**



## 11. INSTALL FRONT DRIVE SHAFT DAMPER LH

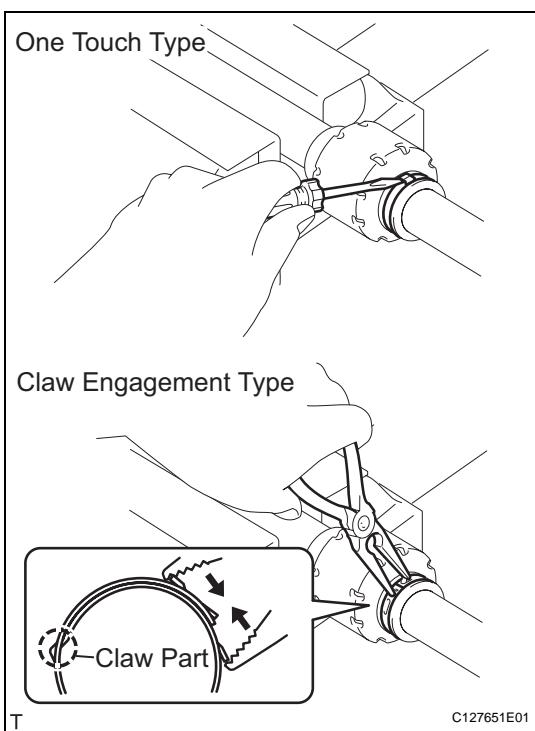
### HINT:

Install the damper clamp to outboard joint side.

- Install a new drive shaft damper clamp and the drive shaft damper to the drive shaft.
- Make sure that the damper is on the shaft groove.
- Set the distance, as described below.

### Standard distance:

161 to 165 mm (6.339 to 6.496 in.)



## 12. INSTALL FRONT DRIVE SHAFT DAMPER CLAMP LH

- Hold the front drive shaft lightly in a soft vise.
- Install the drive shaft damper clamp to the damper.

### NOTICE:

**Be sure to install the clamp in the correct position.**

- One touch type:
  - Using a screwdriver, install the drive shaft damper clamp, as shown in the illustration.
- Claw engagement type:
  - Using needle-nose pliers, install the drive shaft damper clamp, as shown in the illustration.

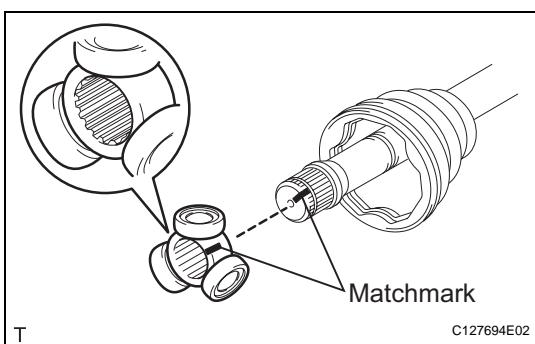
## 13. INSTALL FRONT DRIVE INBOARD JOINT ASSEMBLY LH

- Wrap the spline of the outboard joint shaft with vinyl tape to prevent the boots from being damaged.
- Install new parts to the outboard joint shaft in the following order.
  - Inboard joint boot clamp
  - No. 2 inboard joint boot clamp
  - Inboard joint boot

- Place the beveled side of the tripod axial spline toward the outboard joint.
- Align the matchmarks placed before removal.
- Using a brass bar and hammer, tap the tripod joint onto the drive shaft.

### NOTICE:

- Do not tap the rollers.**
- Be sure to install the tripod joint in the correct direction.**



(f) Pack the inboard joint shaft and boot with grease from the boot kit.

**Standard grease capacity:**

**175 to 185 g (6.2 to 6.5 oz.)**

(g) Using a snap ring expander, install a new shaft snap ring.

(h) Align the matchmarks, and install the inboard joint to the outboard joint shaft.

**14. INSTALL FRONT DRIVE INBOARD JOINT ASSEMBLY RH**

**HINT:**

Use the same procedures described for the LH side.

**DS**

**15. INSTALL FRONT AXLE INBOARD JOINT BOOT**

(a) Install the inboard joint boot to the inboard joint.

**16. INSTALL FRONT AXLE INBOARD JOINT BOOT CLAMP LH**

(a) One touch type:

(1) Using a screwdriver, install the inboard joint boot clamp, as shown in the illustration.

**NOTICE:**

**Be careful not to damage the boot.**

(b) Claw engagement type:

(1) Using needle-nose pliers, install the inboard joint boot clamp, as shown in the illustration.

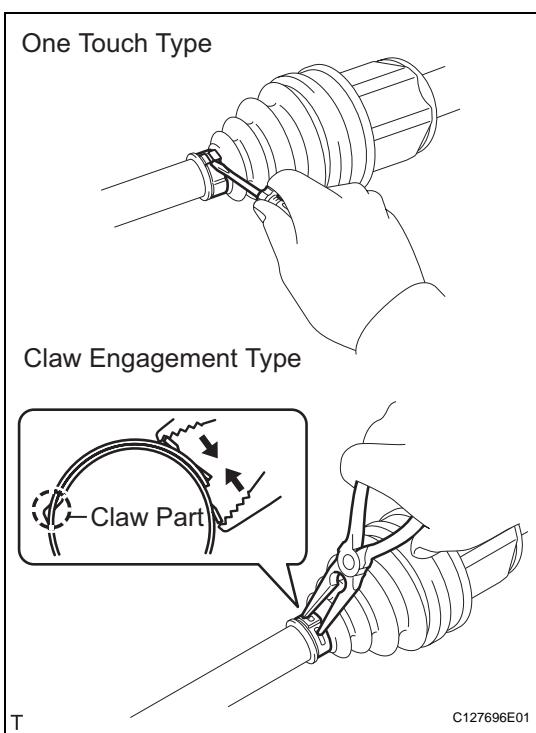
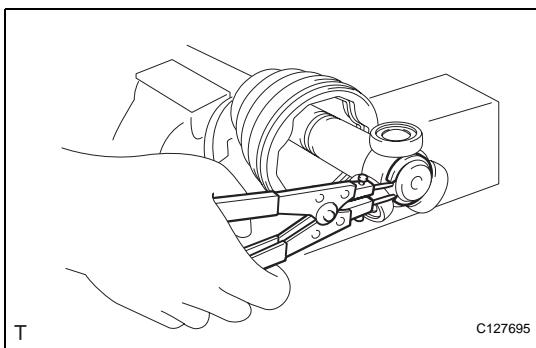
**NOTICE:**

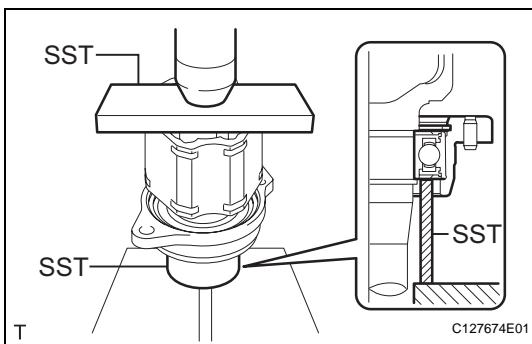
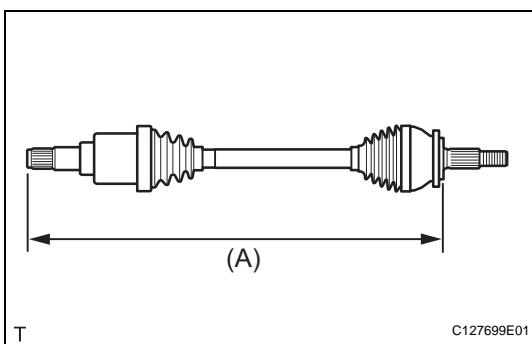
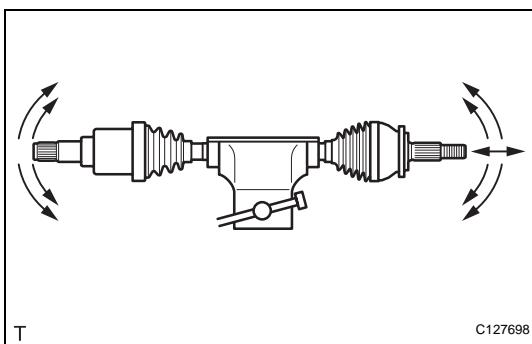
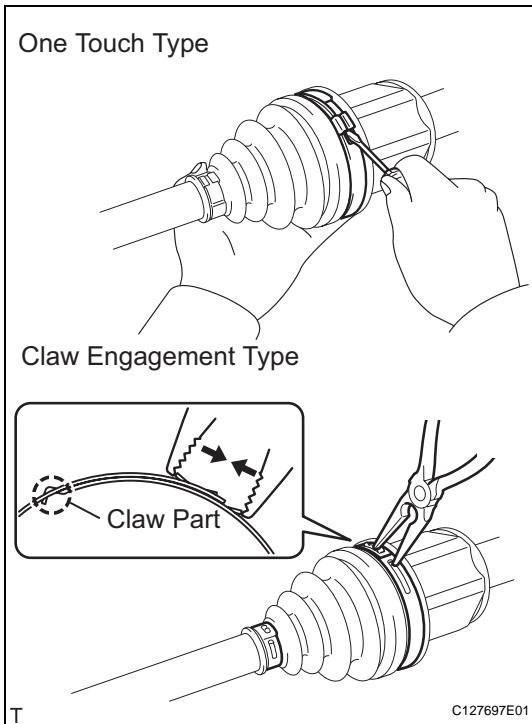
**Be careful not to damage the boot.**

**17. INSTALL FRONT AXLE INBOARD JOINT BOOT CLAMP RH**

**HINT:**

Use the same procedures described for the LH side.





## 18. INSTALL FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP LH

(a) One touch type:

- Using a screwdriver, install the No. 2 inboard joint boot clamp, as shown in the illustration.

**NOTICE:**

**Be careful not to damage the boot.**

(b) Claw engagement type:

- Using needle-nose pliers, install the No. 2 inboard joint boot clamp, as shown in the illustration.

**NOTICE:**

**Be careful not to damage the boot.**

## 19. INSTALL FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP RH

**HINT:**

Use the same procedures described for the LH side.

## 20. INSPECT FRONT DRIVE SHAFT

(a) Check that there is no severe play in the radial direction of the outboard joint.

(b) Check that the inboard joint slides smoothly in the thrust direction.

(c) Check that there is no severe play in the radial direction of the inboard joint.

(d) Check the boots for damage.

**NOTICE:**

**Keep the drive shaft assembly level during inspection.**

**HINT:**

For dimension (A), refer to the following values.

**Reference value:**

**585.2 mm (23.039 in.) for LH side**

**902 mm (35.512 in.) for RH side**

## REASSEMBLY

(2006/01- )

### 1. INSTALL DRIVE SHAFT BEARING CASE SUB-ASSEMBLY (for RH)

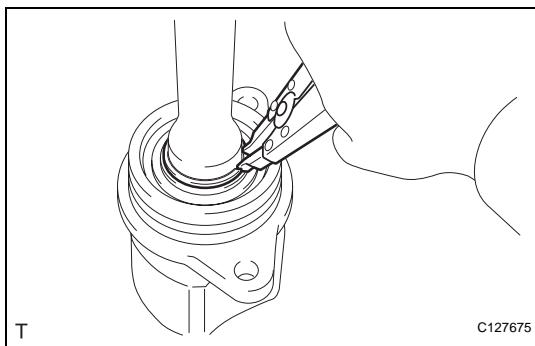
(a) Install the bearing snap ring.

(b) Using SST and a press, press in the drive shaft bearing case to the inboard joint RH.

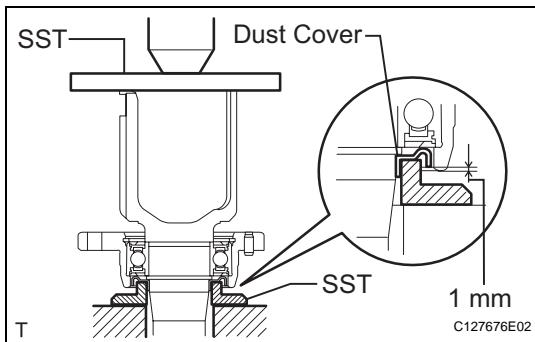
**SST 09527-10011, 09710-04081**

**NOTICE:**

**The bearing should be installed completely.**



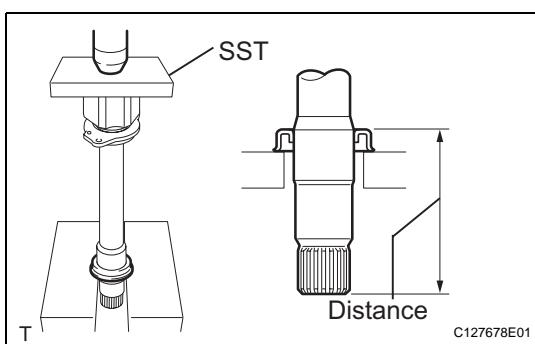
(c) Using a snap ring expander, install a new snap ring.



## 2. INSTALL FRONT DRIVE SHAFT DUST COVER (for RH)

(a) Using SST and a press, press in a new drive shaft dust cover.  
**SST 09726-40010, 09527-10011**  
**Standard dust cover depth::**  
**1 mm (0.04 in.)**

**NOTICE:**  
**Be careful not to damage the dust cover.**



## 3. INSTALL FRONT DRIVE SHAFT DUST COVER RH

(a) Using SST and a press, press in a new drive shaft dust cover until the distance from the tip of the center drive shaft to the drive shaft dust cover reaches the specification, as shown in the illustration.

**SST 09527-10011**  
**Standard distance**

Item	Distance
2AZ-FE	91.0 to 92.0 mm (3.583 to 3.622 in.)
2GR-FE	110 to 111 mm (4.330 to 4.370 in.)

**NOTICE:**  
**Be careful not to damage the dust cover.**

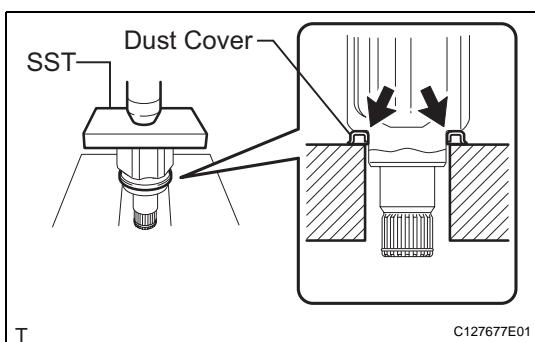
## 4. INSTALL FRONT DRIVE SHAFT DUST COVER LH

(a) Using SST and a press, press in a new drive shaft dust cover.

**SST 09527-10011**

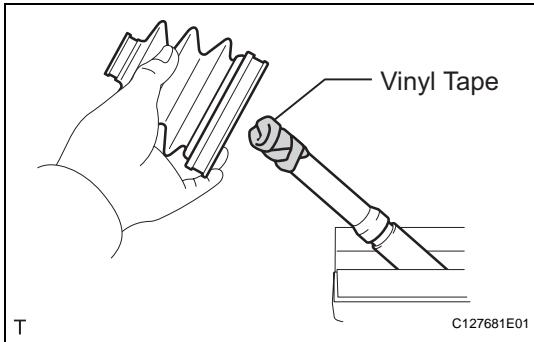
**NOTICE:**

- The dust cover should be installed so that the drive shaft contacts the dust cover at the location indicated by the arrows in the illustration.
- Be careful not to damage the dust cover.



## 5. INSTALL FRONT DRIVE SHAFT HOLE SNAP RING LH

(a) Install a new hole snap ring.



## 6. INSTALL FRONT AXLE OUTBOARD JOINT BOOT

### HINT:

Before installing the boots, wrap the spline of the drive shaft with vinyl tape to prevent the boots from being damaged.

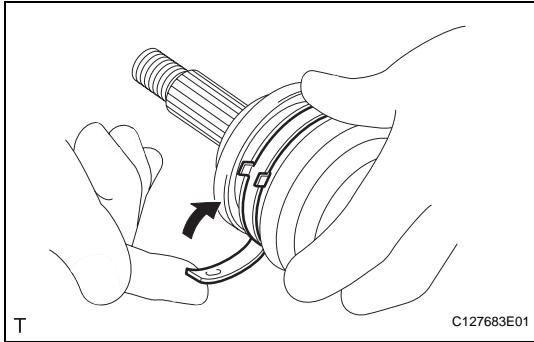
(a) Install new parts to the outboard joint shaft in the following order.

- (1) Outboard joint boot No. 2 clamp
- (2) Outboard joint boot
- (3) Outboard joint boot clamp

(b) Pack the outboard joint shaft and boot with grease from the boot kit.

### Standard grease capacity

Item	Grease capacity
2AZ-FE	190 to 200 g (6.7 to 7.1 oz.)
2GR-FE	205 to 215 g (7.2 to 7.6 oz.)



## 7. INSTALL FRONT AXLE OUTBOARD JOINT BOOT NO. 2 CLAMP

### CAUTION:

**Wear protective gloves while performing the operation and be careful to avoid cutting your hands or other body parts.**

(a) Install a new boot clamp to the outboard joint boot and temporarily bend the lever.

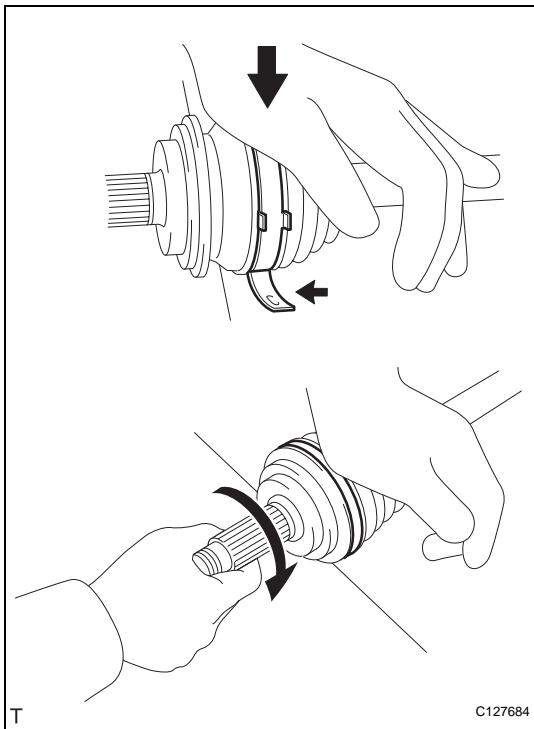
### NOTICE:

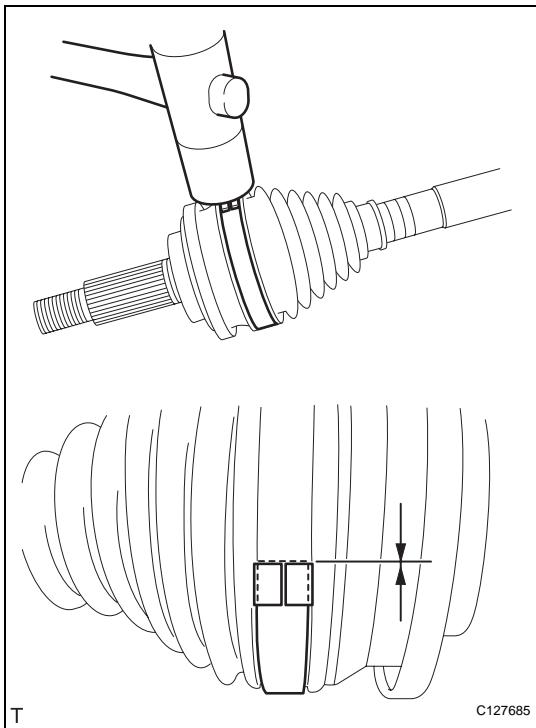
- When temporarily bending the lever, make sure not to deform the band and lever.
- Set the clamp correctly in the guide groove and align it with the interior of the vehicle as much as possible.

(b) With the joint on the working surface, use your body weight to press down on the joint with one hand. Then, roll the joint forward, as shown in the illustration, and press the lever in until a "click" sound is heard.

### NOTICE:

- Do not damage the deflector.
- Make sure the joint is in full contact with the joint surface at all times.

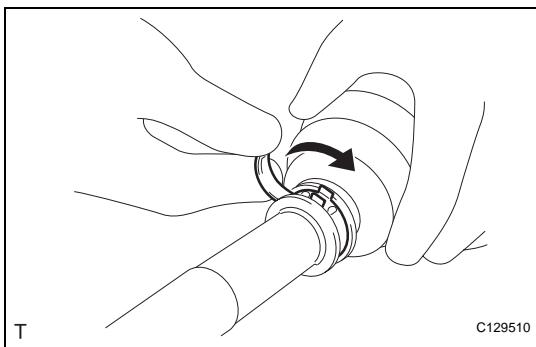




(c) Using a plastic-faced hammer, fix the buckle into place by tapping it. At the same time, use the plastic-faced hammer to adjust the lift of the lever so that the gaps between the buckle flange and lever end flange become even.

**NOTICE:**

**Do not damage the boot.**



**8. INSTALL FRONT AXLE OUTBOARD JOINT BOOT CLAMP**

**CAUTION:**

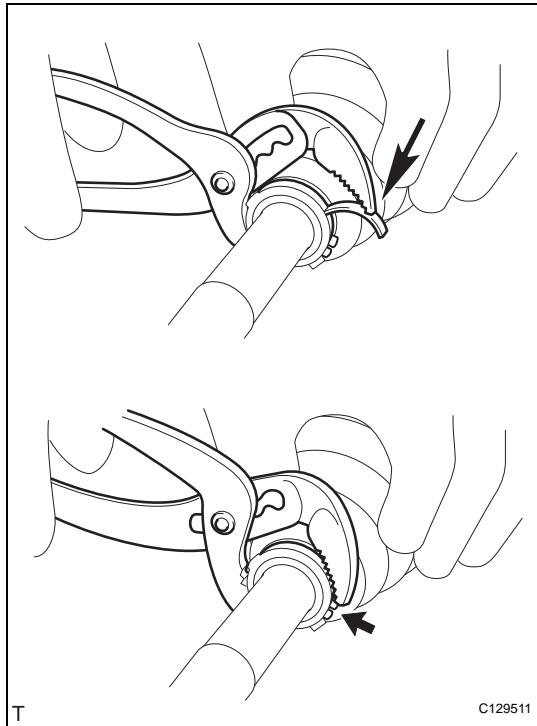
**Wear protective gloves while performing the operation and be careful to avoid cutting your hands or other body parts.**

(a) Install a new boot clamp to the outboard joint boot and temporarily bend the lever.

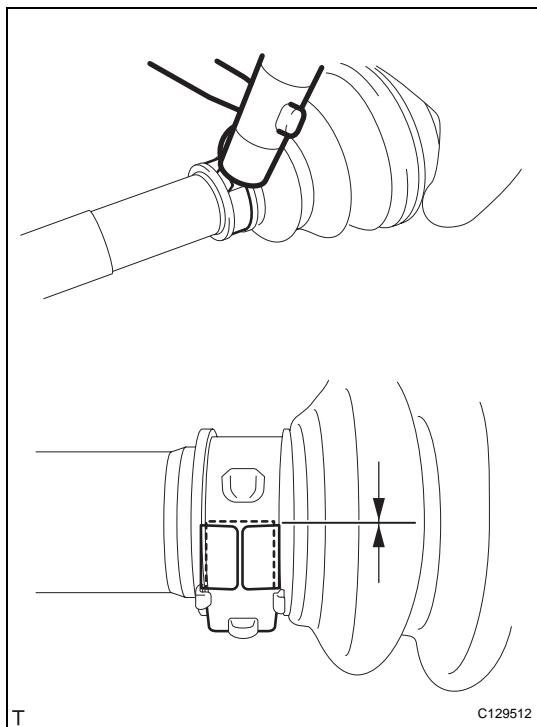
**NOTICE:**

**When temporarily bending the lever, make sure not to deform the band and lever.**

**DS**



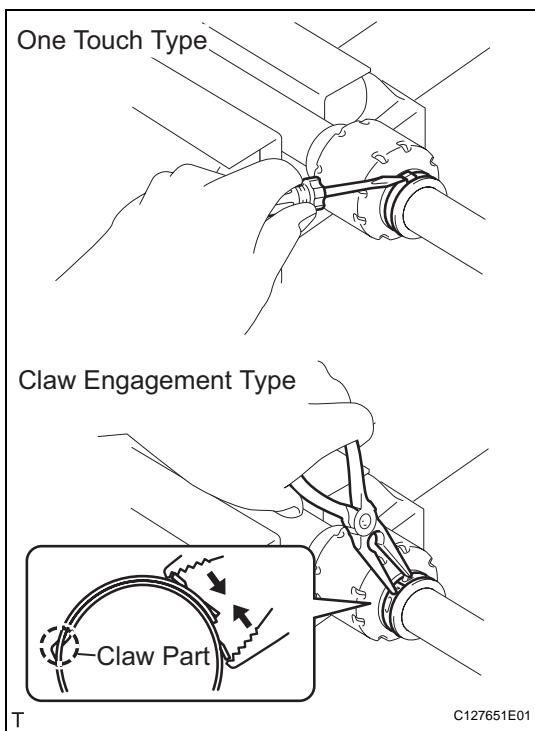
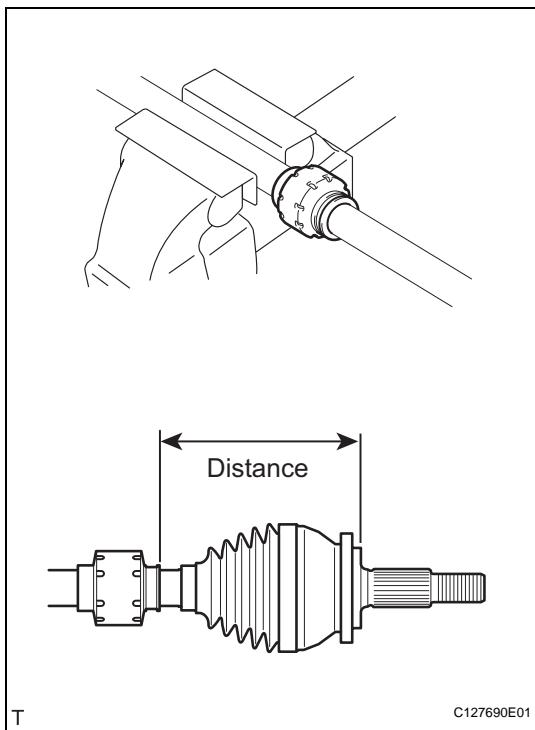
(b) Using water pump pliers, temporarily lock the boot clamp by clamping it down until a "click" sound is heard.



(c) Using a plastic-faced hammer, fix the buckle into place by tapping it. At the same time, use the plastic-faced hammer to adjust the lift of the lever so that the gaps between the buckle flange and lever end flange become even.

**NOTICE:**

**Do not strike the drive shaft forcefully with the plastic-faced hammer.**



## 9. INSTALL FRONT DRIVE SHAFT DAMPER LH (for LH)

- Install a new drive shaft damper clamp and the drive shaft damper to the drive shaft.

**HINT:**

Install the damper clamp to outboard joint side.

- Set the distance, as described below.

**Standard distance:**

161 to 165 mm (6.339 to 6.496 in.)

**DS**

## 10. INSTALL FRONT DRIVE SHAFT DAMPER CLAMP LH (for LH)

- Hold the front drive shaft lightly in a soft vise.

- Install the drive shaft damper clamp to the damper.

**NOTICE:**

**Be sure to install the clamp in the correct position.**

- One touch type:

Using a screwdriver, install the drive shaft damper clamp, as shown in the illustration.

- Claw engagement type:

Using needle-nose pliers, install the drive shaft damper clamp, as shown in the illustration.

## 11. INSTALL FRONT DRIVE INBOARD JOINT ASSEMBLY LH

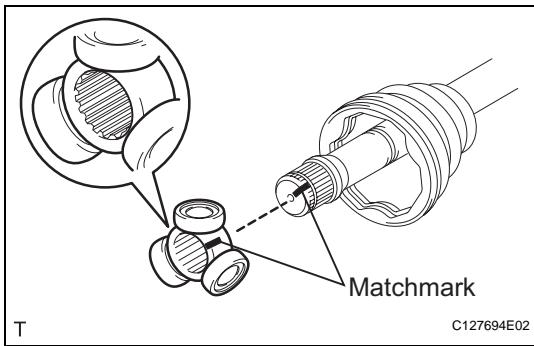
- Wrap the spline of the outboard joint shaft with vinyl tape to prevent the boots from being damaged.

- Install new parts to the outboard joint shaft in the following order.

(1) Inboard joint boot clamp

(2) Inboard joint boot No. 2 clamp

(3) Inboard joint boot



- (c) Place the beveled side of the tripod axial spline toward the outboard joint.
- (d) Align the matchmarks placed before removal.
- (e) Using a brass bar and hammer, tap the tripod joint onto the drive shaft.

**NOTICE:**

- **Do not tap the rollers.**
- **Be sure to install the tripod joint in the correct direction.**
- (f) Pack the inboard joint shaft and boot with grease from the boot kit.

**Standard grease capacity:**

**175 to 185 g (6.2 to 6.5 oz.)**

- (g) Using a snap ring expander, install a new shaft snap ring.
- (h) Align the matchmarks, and install the inboard joint to the outboard joint shaft.

**12. INSTALL FRONT DRIVE INBOARD JOINT ASSEMBLY RH**

**HINT:**

Use the same procedures described for the LH side.

**13. INSTALL FRONT AXLE INBOARD JOINT BOOT**

- (a) Install the inboard joint boot to the inboard joint.

**14. INSTALL FRONT AXLE INBOARD JOINT BOOT CLAMP**

- (a) One touch type:  
Using a screwdriver, install the inboard joint boot clamp, as shown in the illustration.

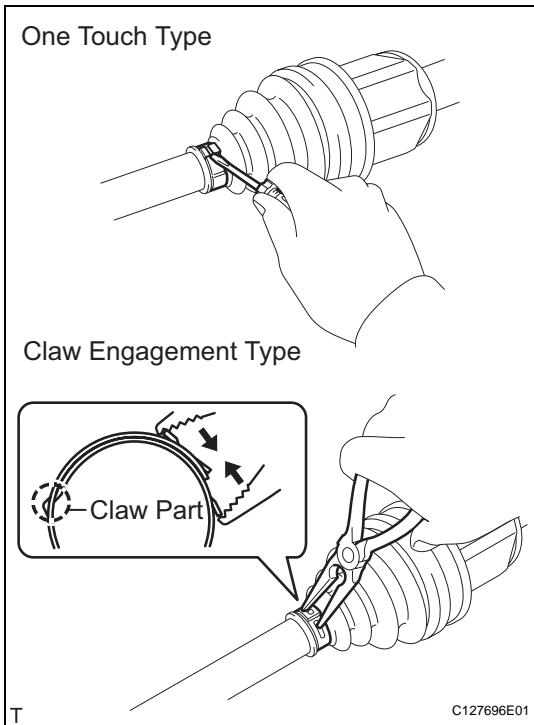
**NOTICE:**

**Be careful not to damage the boot.**

- (b) Claw engagement type:  
Using needle-nose pliers, install the inboard joint boot clamp, as shown in the illustration.

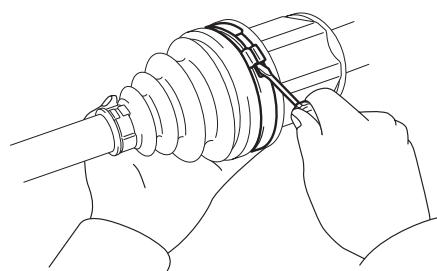
**NOTICE:**

**Be careful not to damage the boot.**

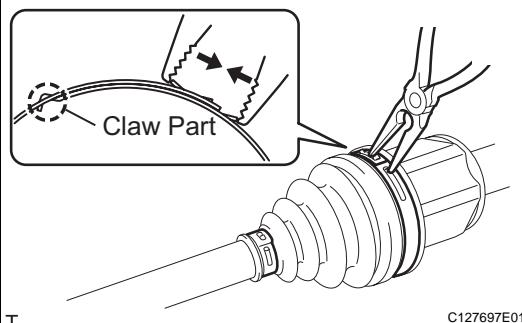


DS

One Touch Type



Claw Engagement Type



T

C127697E01

## 15. INSTALL FRONT AXLE INBOARD JOINT BOOT NO. 2 CLAMP

### (a) One touch type:

Using a screwdriver, install the No. 2 inboard joint boot clamp, as shown in the illustration.

#### NOTICE:

**Be careful not to damage the boot.**

### (b) Claw engagement type:

Using needle-nose pliers, install the No. 2 inboard joint boot clamp, as shown in the illustration.

#### NOTICE:

**Be careful not to damage the boot.**

DS

## 16. INSPECT FRONT DRIVE SHAFT

### (a) Check that there is no severe play in the radial direction of the outboard joint.

### (b) Check that the inboard joint slides smoothly in the thrust direction.

### (c) Check that there is no severe play in the radial direction of the inboard joint.

### (d) Check the boots for damage.

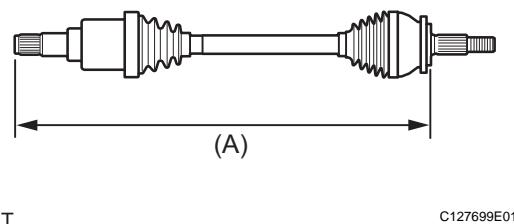
#### NOTICE:

**Keep the drive shaft assembly level during inspection.**

#### HINT:

For dimension (A), refer to the following values.

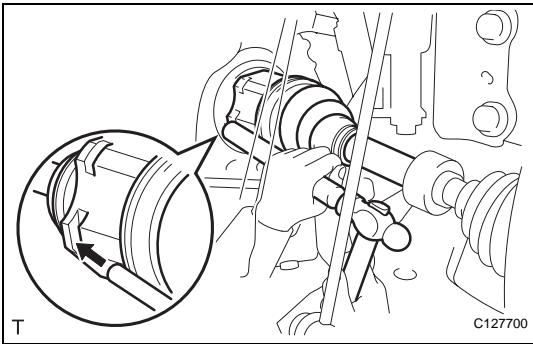
#### Standard reference value



T

C127699E01

Item	Drive shaft LH (Dimension)	Drive shaft RH (Dimension)
2AZ-FE	585.2 mm (23.039 in.)	902.0 mm (35.512 in.)
2GR-FE	570.9 mm (22.476 in.)	914.4 mm (36.000 in.)



## INSTALLATION

(2005/11-2006/01)

**1. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH**

- Coat the spline of the inboard joint shaft with gear oil.
- Using a brass bar and hammer, align the shaft splines in the drive shaft.

**NOTICE:**

- Set the snap ring with the opening side facing downwards.
- Be careful not to damage the oil seal, boot and dust cover.

**2. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH**

- Coat the spline of the inboard joint shaft with gear oil.
- Align the shaft spline and install the drive shaft with 2 bolts.

**Torque: 63.7 N\*m (650 kgf\*cm, 47 ft.\*lbf)**

**NOTICE:**

Do not damage the oil seal, boot and dust cover.

**3. CONNECT STEERING KNUCKLE WITH AXLE HUB LH**

- Align the shaft splines in the drive shaft to the steering knuckle with axle hub.

**4. CONNECT STEERING KNUCKLE WITH AXLE HUB RH**

**HINT:**

Use the same procedures described for the LH side.

**5. CONNECT FRONT SUSPENSION NO. 1 LOWER ARM SUB-ASSEMBLY LH (See page [AH-10](#))**

**6. CONNECT FRONT SUSPENSION NO. 1 LOWER ARM SUB-ASSEMBLY RH**

**HINT:**

Use the same procedures described for the LH side.

**7. INSTALL FRONT STABILIZER LINK ASSEMBLY LH (See page [SP-31](#))**

**8. INSTALL FRONT STABILIZER LINK ASSEMBLY RH**

**HINT:**

Use the same procedures described for the LH side.

**9. CONNECT TIE ROD END SUB-ASSEMBLY LH (See page [PS-45](#))**

**10. CONNECT TIE ROD END SUB-ASSEMBLY RH**

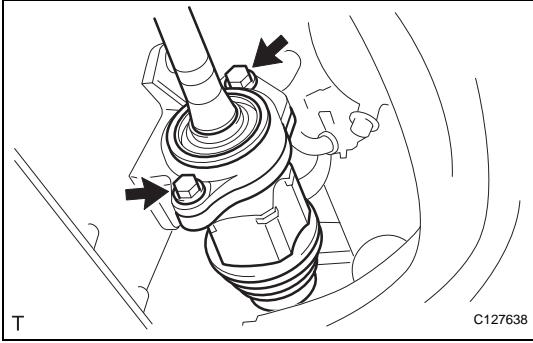
**HINT:**

Use the same procedures described for the LH side.

**11. CONNECT FRONT SPEED SENSOR LH**

- Connect the speed sensor (see page [BC-191](#)).

DS



**12. CONNECT FRONT SPEED SENSOR RH**

HINT:

Use the same procedures described for the LH side.

**13. INSTALL FRONT AXLE HUB NUT (See page [AH-10](#))**

**14. INSTALL FRONT WHEEL**

**Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)**

**15. ADD AUTOMATIC TRANSAXLE FLUID**

(a) Add automatic transaxle fluid for U140F (see page [AX-152](#)).

(b) Add automatic transaxle fluid for U241E (see page [AX-151](#)).

**16. CHECK FOR AUTOMATIC TRANSAXLE OIL LEAKAGE**

**DS**

**17. INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**

(a) Inspect and adjust the front wheel alignment (see page [SP-3](#)).

## INSTALLATION

(2006/01- )

**1. INSTALL FRONT DRIVE SHAFT ASSEMBLY LH**

- (a) Coat the spline of the inboard joint shaft with gear oil.
- (b) Align the shaft splines and tap in the drive shaft with a brass bar and hammer.

**NOTICE:**

- Set the snap ring with the opening side facing downwards.
- Be careful not to damage the oil seal, boot and dust cover.

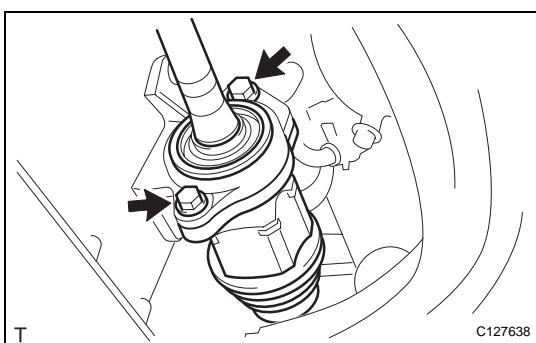
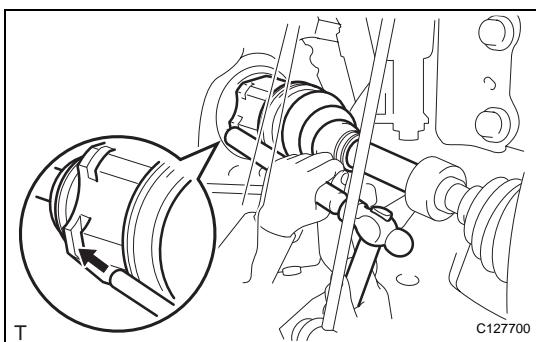
**2. INSTALL FRONT DRIVE SHAFT ASSEMBLY RH**

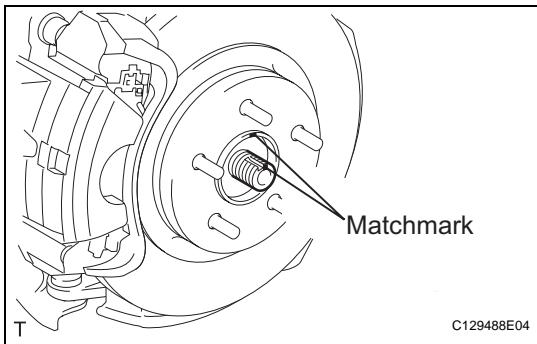
- (a) Coat the spline of the inboard joint shaft with gear oil.
- (b) Align the shaft splines and securely insert the drive shaft.
- (c) Install the 2 bearing bracket bolts.

**Torque: 63.7 N\*m (650 kgf\*cm, 47 ft.\*lbf)**

**NOTICE:**

**Do not damage the oil seal, boot and dust cover.**





3. **CONNECT STEERING KNUCKLE WITH AXLE HUB LH**
  - (a) Align the shaft splines in the drive shaft to the steering knuckle with axle hub, and connect the steering knuckle with axle hub.
4. **CONNECT STEERING KNUCKLE WITH AXLE HUB RH**

HINT:  
Use the same procedures described for the LH side.
5. **CONNECT FRONT SUSPENSION NO. 1 LOWER ARM SUB-ASSEMBLY LH (See page [SP-24](#))**
6. **CONNECT FRONT SUSPENSION NO. 1 LOWER ARM SUB-ASSEMBLY RH**

HINT:  
Use the same procedures described for the LH side.
7. **INSTALL FRONT STABILIZER LINK ASSEMBLY LH (See page [SP-31](#))**
8. **INSTALL FRONT STABILIZER LINK ASSEMBLY RH**

HINT:  
Use the same procedures described for the LH side.
9. **CONNECT TIE ROD END SUB-ASSEMBLY LH (See page [PS-45](#))**
10. **CONNECT TIE ROD END SUB-ASSEMBLY RH**

HINT:  
Use the same procedures described for the LH side.
11. **CONNECT FRONT SPEED SENSOR LH**
  - (a) Connect the speed sensor (see page [BC-193](#)).
12. **INSTALL FRONT SPEED SENSOR RH**

HINT:  
Use the same procedures described for the LH side.
13. **INSTALL FRONT AXLE HUB NUT (See page [AH-11](#))**
14. **INSTALL FRONT WHEEL**  
Torque: 103 N\*m (1,050 kgf\*cm, 76 ft.\*lbf)
15. **ADD AUTOMATIC TRANSAXLE FLUID**
  - (a) Add automatic transaxle fluid for U140F (see page [AX-152](#)).
  - (b) Add automatic transaxle fluid for U241E (see page [AX-151](#)).
  - (c) Add automatic transaxle fluid for U151E (see page [AX-177](#)).
16. **CHECK FOR AUTOMATIC TRANSAXLE OIL LEAKAGE**
17. **INSPECT AND ADJUST FRONT WHEEL ALIGNMENT**
  - (a) Inspect and adjust the front wheel alignment (see page [SP-3](#)).